

Manufacturers Record

Exponent of America



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Another Message of Optimism

From an especially interesting address by Mr. D. R. Crissenger, Comptroller of the Currency, to the National Credit Association at its meeting in Washington last week, we take a few striking sentences which every man can read and take to heart. The entire address was brim full of statements, of which the following are merely typical:

"Our people need a new baptism in righteousness, a new consecration to the ideals of integrity, a new devotion to right and justice. You men can render no greater service to this people than to be leaders of the creed that the light of square dealing shall illuminate the business conscience of our people.

"If I were to attempt a word of counsel at this particular stressful time to a company of men of your profession, it would be that you give the fullest possible weight, in your dealings with credits, to the importance of character and established good repute.

"There are many men and concerns which nowadays are under great pressure because of conditions for which their own business methods are in no way responsible. To these I feel that every consideration should be accorded in order to help them through rough business waters. We have need to keep this class of men and concerns in business, and to insure that their experience and special equipment shall not be lost to the community. It is my thought that an honest man of good character and good repute often makes a better credit risk than a dishonest, squirming, wiggling man with resources behind him.

"I have said recently, in a public address, that the policy of the government's banking supervision and fiscal authorities would be to extend all possible support to legitimate business and industry, but that we could not give quarter to speculative demands. That means that, as between the person with absolute security, seeking credit on which to conduct speculative operations and the person with less attractive immediate resources, who needed help in necessary business, we would resolve doubts with our preferences running in favor of business and against speculation.

"The business, the industry, the finance of this country are at bottom sound and secure. By comparison with conditions in other countries, all over the world—and that regardless of whether they were involved directly in the World War or not—our country looks a very monument of stability and reliability.

"We can afford to have confidence in ourselves when others are so ready to give their complete confidence in us.

"THIS ADMINISTRATION IS NOT TOO ENGROSSED WITH THE UNIVERSE TO FIND TIME FOR ATTENTION TO AFFAIRS AT HOME. THERE IS IN PROCESS, FROM DAY TO DAY AND HOUR TO HOUR, THE MOST DETERMINED EFFORT TO COORDINATE AND SET AT WORK THE MEANS WHEREBY TO AMELIORATE BUSINESS DIFFICULTIES, TO RENDER CONCRETE ASSISTANCE WHERE IT WILL DO THE MOST GOOD, TO OPEN FOREIGN MARKETS FOR THE HUGE SURPLUS OF OUR PRODUCTS."

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MAY 26 1921

Volume LXXIX

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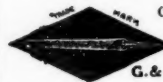
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VICTOR H. POWER, Treasurer
I. S. FIELD, Secretary

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In order to avoid delays all correspondence pertaining to news or advertising matters should be addressed directly to the Manufacturers Record, Baltimore, Md., and not to individual editors, officers, employees or any branch office.

PATIENCE NEEDED.

UNDER the disadvantages under which we are laboring in printing the Manufacturers Record and Daily Bulletin in Richmond, with the office force divided, part of it being in that city and part in Baltimore, it is impossible for us to acknowledge the receipt of all of the letters of enthusiastic commendation which have been coming to us from all parts of the country, nor can we begin to publish one-half the letters and special articles submitted for publication. Our readers will, therefore, we trust bear with patience the failure to acknowledge receipt of letters promptly, or the failure to print interesting matter bearing on the great issues of the hour.

FALSE TEACHINGS IN SOME SCHOOLS.

ASOUTHERN business man, in a letter to the Manufacturers Record referring to an editorial against the Smith-Towner Educational Bill, says:

"You are exactly right on the Smith-Towner bill. It is dangerous, and probably backed by Socialism. A few days ago a woman teacher here with highest credentials from another state, told her class that they were descended from monkeys, that the Bible did not say so, but the Bible did not always tell the exact truth; rather a fair story, etc., etc.

"Thousands of folios may be written about each of the pressing questions of the day and we will get nowhere, because no human can evolve a perfect law. So there is always the opportunity for the critic. A law in each state forbidding any person to teach in the public schools whose parents were not born in the United States of America would go far in the elimination of foreign propaganda and unrest."

LET IN THE LIGHT, SO THAT REMEDIES MAY BE APPLIED.

THE END of the reign of terror is in sight—that dread period of months during which the gentlemen to whom was confided control of the credit system of the country employed their vast authority to spread desolation and destruction from one end of the country to the other, almost bankrupting agriculture and bringing about a condition of affairs to which it would be difficult to find a parallel in the whole history of the human race.

The facts were long in coming out—they are not all out yet. With the utmost power of which we were capable we emphasized the truth that the almost universal destruction was being induced, facilitated and nourished by fiscal direction. We charged dictatorial interference with the normal conduct of business and a prostitution of the powers resident in the Federal Reserve Board. It was established to take the control of credit out of the hands of private individuals in New York who were alleged to have it. It was established to see that legitimate credit should be extended to legitimate business in every community in the land, on equal terms. Instead, with unthinkable arrogance, the Board launched a program to break the prices of farm and other products, to stop the flow of credit and to create in the United States an era of stringency incomparably destructive. These things we charged. But Governor Harding persistently denied that there had been any restriction of credit, and he carried with him a grabbag of statistics from which he extracted on occasion all sorts and kinds of figures to prove what was not so. So, likewise, did Secretary Houston. But, since then, a fighting gentlemen who participated in the inner conferences, who knows what went on in detail and the accuracy of whose characterizations cannot successfully be challenged, has exposed the whole Houston-Harding policy for what it was—a deliberate and unnecessary, a destructive and devastating, plan to break down public confidence and deprive the business of the nation of the credit supplies to which it was legally and morally entitled.

We suspect that Mr. Williams has not told more than a small part of what he knows. Rumors keep coming to us from men in Congress who aver that they have heard this and that, so startling in character that they see no way out except a thorough investigation of the administration of the Federal Reserve Act. There are subterranean rumblings which forbode an earthquake. There are not one, but many, plans afoot for an inquiry into the conduct of the system.

There is much merit in the contention that it would be unwise and not for the public good to conduct an inquiry at this time. The protagonists of this view insist that since the new Administration has decided that a reversal of policy is advisable, and since the credit system hereafter will be available for the promotion of production, a remedy for the fault has already been found. It would be a work of supererogation, it is claimed, to undertake through

Congress to do a thing which is already being done by administrative authority. This is based on the clear signs of an approaching easing of credit, an easing, indeed, which could not long be delayed in view of the scandalous failure to employ for productive purposes the vast gold reserve now available—and it is growing every day in vastness.

Our efforts have been devoted primarily to the restoration of conditions under which honest and brave men would feel that they could do business without the threat of bankruptcy hanging constantly over their heads. Our purpose was to unplug the reservoirs of credit. We wanted, through publication of the facts, to bring about a healthy public knowledge that would compel the Federal Reserve Board to become intelligent. But we doubt now if an investigation can be avoided. No financial system is sound unless it has the confidence of the people. The revelations of former Comptroller of the Currency Williams show so conclusively that there are things to be investigated, prove with such sureness that the Federal Reserve Board is an autocracy, an institution out of harmony with American ideals, that little good can be done now by "covering up." It may be that the only way to save the good features of the Federal Reserve system—its many splendid features—is by a thorough investigation which will disclose the elements in it that need correction.

It would seem to be established as axiomatic, to illustrate, that the Board should be deprived of its authority to change the rediscount rate without notice. Except in grave public emergency, and in principle, no transportation rate can be changed in this country without notice and without a hearing. No change in the levy at the customs houses can be made without hearings and open debate in Congress. But the transportation rate on money—the cost of renting money—which is more vital to the national welfare than all other rates combined, can be changed at will by a board of seven men, without notice. Moreover, if any one of the seven men, it has been shown, happens to disagree with the other six, he can be and has been deprived of the right to have a stenographic report of what the others did in official meeting. Nor is it at all improbable that it will be shown later that a single member in such a case would be the object of intimidation and that threats would be employed to frighten or coerce him into approval of policies which in his heart and soul and mind he knew to be destructive.

It is essential, therefore, in the first case, that new legislation should be enacted requiring that any of the regional reserve banks, before changing the basic discount rate, should give public notice of such intention and authorize hearings on the proposed change. We know of no reason why an honest man should object to that; we do not believe that there is soundness in any contention that such procedure would impair the efficiency of the banking system.

In the second case, in the adoption, say, of a deflation or an inflation policy, the Federal Reserve Board should be required to announce, after the hearings, its decision, and likewise the vote by which it was reached—whether it was unanimous or not, and each member should be permitted to make public his reasons for his vote. The Federal Trade Commission announces the vote by which a decision is reached. The Interstate Commerce Commissioners issue long statements explaining why they voted this way or that, and the Supreme Court, the highest of all our tribunals, not only specifically announces the vote by which every decision is reached, but the various Justices, in general, explain in detail the wherefores of their positions.

Yet in a matter of so vital importance to the whole na-

tion as the cost and conditions of credit, an autocratic body is set up in Washington that not only declines to give the public any information, but carries secretiveness to such an extreme that it deprives, we have the evidence to show, even its own disagreeing members of official information. It is a monstrous thing and it cannot be permitted to continue.

We are aware, of course, that control of the Board is passing into new hands. The cold poison of Bourbonism no longer can palsy the business of America. Men of vision and wisdom, fresh from the people, understand that we cannot pay great public or private debts by non-production. They understand that there must be production and that there cannot be production unless there is credit. It did not require any particular vision, therefore, to foresee that the action of the British authorities in reducing the bank rate was certain to be followed by similar action in this country. The word has been passed down the line that the banks must be generous in granting loans for productive purposes, in field or factory, and that the great Federal Reserve System will stand back of them in the granting of such loans. The thrill of even more important approaching decisions permeates the atmosphere. Men are beginning to feel their way hopefully. The scent of freedom guides them. They are convinced, and rightly so, that The Terror is passing, that the new authority will not employ intimidation or coercion and will not strangle initiative in its beginnings.

Just as we without hesitation informed our readers many months ago that the Harding-Houston policy would bring about the panic which later developed in all its fury, so now we have no hesitancy in advising them that the new policy, already partly in effect, will immediately have healing power and will surely bring back into whirling motion the machinery of prosperity. It cannot be otherwise. It will take time to recover the awful losses—25 billions of dollars—which the Harding-Houston method forced on the country—the sacrifice of at least a full year's work on the part of millions—but the recovery, under the new policy, is as certain as was general devastation under the old.

But grateful as the whole country and the world will be for the inauguration of sensible policies now in the conduct of American credit, the paralysis arbitrarily and artificially brought about has proved conclusively that never again can the nation risk a repetition of the debacle. Only fools sit down twice on a red-hot stove. What has been, can be—unless we prevent. While recognizing, therefore, certain unfortunate features involved in a thorough inquiry into the past conduct of the Federal Reserve Board, we are convinced that the necessity for revision of the law, in certain essential points, is so pronounced that the inquiry should be held. It should be of a constructive character, for the purpose of formulating amendments to the present law that will not prevent the efficient functioning of the credit system, but will curtail the enormous power of the Board and bring it into subordination to the national sovereignty. The Federal Reserve Board is the servant of the nation; the nation is not the servant of the Federal Reserve Board—that is the great fact which must be established beyond all question by additional legislation.

The nation has been in the hands of those who visioned bankruptcy and hard times as the cure for all troubles. Americanism is progress and prosperity. We have been at the mercy of men whose souls were filled with dread of the future, who shivered at the prevalence of prosperity, who had but one slogan and that was "put on the brakes." It is Americanism to face the future with supreme trust, to be ready to battle with it for its fruits,

to move on to greater achievement, to dare, to venture, to march ever onward in the vanguard of achievement. America tied to a hitching post is the tragedy of the ages. So it has been tied during these terrible months. It is ready now to leap onward into action. At last there is to be again "sensible credit."

KRUPPS TO BUILD STEEL WORKS IN CHILE.

ACCORDING to reports from Chile, as published in the *Washington Post*, the Krupps have obtained concessions of enormous value from Chile for the purpose of establishing a branch plant of their German iron and steel and munition making industry. The *Santiago papers* are quoted as reporting that the amount to be expended for the purchase of an iron ore property, on which to base this industry, will be about \$10,000,000.

Krupp, it is said, has secured from the government of Chile through the negotiations of a German general a concession for nearly 500,000 acres of virgin forest land covered with gigantic trees. These papers also report that the Krupps propose to establish works on a scale even larger and better equipped than those at Essen. It is said that great secrecy was observed during the progress of these negotiations for fear of creating ill-will against Germany and the Krupps for undertaking so vast an operation in iron and steel and munition making in South America.

If the reports from Chile as to the magnitude of the undertaking and the concessions granted the Krupps are correct, this deal may become of international importance and of international danger.

In a report on business conditions in Germany the Guaranty Trust Co. of New York, which keeps in very close touch with the German situation, among other things says:

"Krupps are employing 12,000 more workmen now than in the month immediately before the outbreak of the war. This total does not include workmen in five other manufacturing undertakings which are controlled by, or work in alliance with, the Krupps. At Essen, in addition to the casting and rolling operations formerly carried out, 73 different kinds of machines, apparatus or technical articles are being produced. The Krupps cast steel works have been extended from a pre-war area of 242 acres to 1,400 acres, and the construction of railway material has reached enormous dimensions.

"German manufacturers are securing considerable orders in Argentina for fencing wire, rods, bars, billets, railway rolling stock, axles and wheels, and are offering prices with which no other country can compete. A German firm recently obtained an order for 4,300 tons of steel rails at prices far below American quotations and, in addition, the German makers are extending six months to one year credit to the buyers. Krupps recently obtained an order from Argentina for 10,000 steel wheels at a price of less than 50 gold pesos a wheel. Fourteen American, British and German manufacturers competed for the contract at prices ranging from 70 to 118 gold pesos a wheel.

"The Krupp concern has absorbed the Rhine Metalware and Machine Factory and that great war plant is now engaged in the manufacture of agricultural machinery and enamelware. Krupps control the Ernmann Works, Dresden (large manufacturers of cameras and moving picture apparatus), and also are specializing in the manufacture of cash registers, textile machinery and oil and sugar refining machinery."

The facts given here are indicative of the great industrial development under way in Germany and of the ability of that country to undersell the products of this and other

countries. The fact that the Krupps are employing 12,000 more workmen than in the month before the outbreak of the war merely shows how little the industries of Germany really suffered by the war.

It is interesting also to note that the Krupps are becoming large manufacturers of cameras and moving picture apparatus, in view of the fact that German propaganda is preparing to flood this country through moving pictures disguised in such a way as to deceive almost the elect, but at the same time definitely intended to create a favorable impression for Germany and a spirit of hostility to our allies.

SHIPPING COTTON MILL MACHINERY TO CHINA.

THE heavy shipments of cotton machinery from England to the Orient recently reported in the *Manufacturers Record* are being followed by large shipments from New England to China. The *Boston Transcript* reports the recent shipment of a complete outfit for a 20,000 cotton spindle mill to be built in Shanghai, and the statement of Richard Bogner, traffic manager of the Wah Chang Trading Company, that this is the first of seven mill equipments to be shipped from Boston.

"China Trade" of New York, a paper founded by Chinese cotton merchants, reports the proposed construction at Canton of a new cotton mill capitalized at \$2,000,000, the chief aim of the project being to manufacture goods for Chinese consumption.

The development of the cotton growing and cotton manufacturing industry in the Orient, now proceeding on so large a scale, should be welcomed by all lovers of humanity and civilization.

Some years ago New England was greatly alarmed for fear that the development of the cotton mill industry of the South would destroy its textile interests; while there were supposedly broad-minded business men in the North and West who were decidedly opposed to the industrial development of the South, fearing that the growth of this section would retard the advancement of their sections.

Against such a narrow sectional view for the United States the *Manufacturers Record* has always protested. We insisted that New England should not become alarmed at the rapid development of cotton manufacturing in the South; that there would be room enough in this country for all of the industrial activities which might be created; and that though New England might have to shift its trade perchance to finer goods, or to other lines, the South's development would enrich New England and the whole country.

We believe that world affairs should be looked at from a somewhat similar point of view. If the development of cotton growing and cotton manufacturing in the Orient can add to the prosperity of the people of that part of the world then all lovers of civilization should rejoice in every evidence of progress which would advance the prosperity of China and India and other Oriental countries.

The world is enriched, humanity is advanced, civilization is made safer as employment broadens throughout the world and prosperity increases. That is the basis upon which all the business difficulties of the world should rest, except when it comes to the point of the punishment of criminal nations and criminal individuals who violate all human and Divine laws. They should be justly punished and made to bear the burden of the penalty of their crimes.

Some Inside Facts About Federal Reserve Board Activities

MR. JOHN SKELTON WILLIAMS, former Comptroller of the Currency and a member of the Federal Reserve Board, has put into pamphlet form, entitled "What Congress Should Do," his address on the workings of the Federal Reserve Board recently published in the Manufacturers Record.

The subject discussed by Mr. Williams, based on his inside knowledge as a member of the Board of what was going on, should command the attention of every patriotic citizen; for the business life of this country—the prosperity of the farmers, the manufacturers and the merchants—is staked on the work of the Federal Reserve Board.

Credit is the life blood of business. Any body of men which has the power to turn off or turn on the flow of this life blood at any moment which suits their convenience, may bring about the death of business or its prosperity. The power vested in the seven men who control the Federal Reserve Board is the greatest power ever given by law to any body of men on the face of the earth; for that power gives them the absolute domination of every industry in the country, of every class of business from that of the farmer to that of the manufacturer and the merchant.

Seven men sitting in secret session in Washington have a power so stupendous that the mind is staggered at the very contemplation of what they can do at any moment. And what they do affects the entire world, for as goes America so to a large extent will go the world.

The Federal Reserve System has many good features, but its power of domination over the entire financial interests, and thus over all business interests, is so far beyond anything that Wall Street in its palmiest days ever had that it seems an incomprehensible thing how such a system could ever have been brought into existence without more safeguards than were placed around its management. Seven men responsible to no one else on earth have the power of life or death over all this country's business activities, and in this way can largely shape the destiny of business activities of every other country on earth. Their sessions are held in secret. The Board even denied to Mr. Williams, a member, the privilege of seeing the reports of some of the meetings which he had not attended.

In his address, Mr. Williams presents many facts which are worth republication. Though we published his speech in full in our issue of April 21, and commented freely upon it editorially, it is worth while to reiterate some of the statements that he made which now appear in his pamphlet.

Mr. Williams refers to the fact that he had urged the Board "to make public certain information which he believed would be distinctly salutary and beneficial," and which he believed the public was entitled to have, "but," says Mr. Williams, "the Board shrank apparently in dismay from the suggestion." * * * "Instead of giving the public the benefit of the facts set forth in the correspondence, the Board, I hear, sent a hurry call to New York for a 'certain high official' of the New York Reserve Bank who was supposed to have a large acquaintance and influence with United States Senators; and this gentleman, I am informed, spent five days or more at the Capitol in the latter part of February—in plain language—'lobbying' for the Board and endeavoring to find out what Senators had 'seen' the correspondence in order to make quiet and ex parte explanations of matters for which the Board had been seriously criticized, and as to which I had urged publicity and open discussion, which the Board had refused."

As Mr. Williams refers to this "important official" of the New York Federal Reserve Bank it is interesting to note from the annual report of the Reserve Board of 1919 that the Governor of the Federal Reserve Bank of New York draws a salary of \$50,000, the Chairman of the Board \$30,000 and two deputy Governors \$51,000, these four salaries aggregating \$131,000. Stated in another way, these four salaries largely exceed the combined salaries of the President, and the Vice-President of the United States, the Chief Justice of the Supreme Court, the Secretary of the Navy, and the Secretary of War. But then, New York bankers come high.

Quoting a letter in October, 1920, which he wrote to the other members of the Board, Mr. Williams emphasized the tremendous depression which had been brought about through too rapid deflation, and urged that the time had come for the exercise of salutary and constructive powers such as might be at the command of the Board. He also advocated the revival of the War Finance Corporation, but it is a well known fact that Secretary Houston, a member of the Board, vigorously opposed the revival of that corporation and President Wilson vetoed it. Nevertheless, under the new administration the War Finance Corporation has been revived, and of this Mr. Williams says, "against the earnest expostulations of the chairman of the Federal Reserve Board." The War Finance Corporation is already functioning and materially helping the country.

Mr. Williams expressed the thought in his letter of December 28 to the Board, similar to that which the Manufacturers Record has often expressed, to the effect that our prosperity would mean world wide prosperity; that the breaking down of our business interests would affect the business interests of the whole world. On this point he said:

"I tried to demonstrate that the welfare of the world depended upon the welfare of this country, and that the fate of this country, for the near future at least, depended largely on the policy of the Federal Reserve Board controlling the financial levers."

In vigorously scoring in one of his letters to the Board the profiteering operations of some New York banks he said:

"The official reports also show that in addition to the money which the New York banks were lending on call in New York for account of their correspondents and customers, the National banks in New York City this time last year had on deposit to the credit of their correspondent banks in all parts of the country approximately \$900,000,000 more, while the total sum which the New York National Banks were lending, directly and indirectly, to all other banks throughout the country was considerably less than one-fourth of that sum. * * * While there appears to be this scarcity of money and of credit in the great agricultural and producing sections of the West and Northwest, and in the South and Southwest, we find that individual banks in New York are borrowing from the Reserve System in a number of cases more than \$100,000,000 each and sometimes as much as \$145,000,000 is loaned there to a single bank,—twice as much as the total loans some of the Reserve Banks have been lending recently to all the member banks in their districts. * * * I pointed out to you that the New York Reserve Bank was at that time (January, 1920), lending an amount nearly six times its own capital, that is to say, six times the capital of the Reserve Bank of New York to * * * one member institution; and I showed you that the money which the New York Reserve Bank had loaned to * * * one borrower, on December 31, 1919, amounted

to nearly twice as much as the aggregate amount of loans and discounts which the Federal Reserve Bank of Dallas was lending at that time to all of its member banks in that great district, embracing the entire State of Texas, and part of the States of Louisiana, Oklahoma, New Mexico and Arizona.

"It appears that in order to make these huge loans to those institutions the New York Federal Reserve Bank had found it desirable to rediscount or borrow, about the time of my letter to you of January 28, 1920, over \$118,000,000 from seven other Federal Reserve Banks, including among others, the Reserve Banks of Dallas, Chicago and Atlanta, whose resources available for their own member banks were to that extent lessened."

Further on Mr. Williams said:

"I was further painfully impressed by the evidence of the official records that at the beginning of August, 1920, in crop moving time, the National Banks in New York City were lending for correspondents on so-called 'Wall Street' loans for stock speculations and operations, more than \$500,000,000 coaxed from banks everywhere in the country by the high rates speculators would pay. This was more than the Federal Reserve Banks of Minneapolis, St. Louis, Kansas City, Dallas and Atlanta were lending to their 4,000 or more member banks."

Mr. Williams refers to a plan discussed by an "important official of the Federal Reserve Bank of New York, with a heartlessness which even amazed Wall Street, and of which I shall speak again presently, which called for putting on still more pressure, thus cleaning up the after-war mess in a hurry and getting it over."

This proposal involved "many forced failures" but the "important official of the New York Federal Reserve Bank" did not seem to be at all disturbed by his suggestion of murdering business interests in order to get the mess cleaned up.

In olden days the Indians had a custom; so it was said, that whenever in one of their marches members of the tribe, male or female, by reason of age or sickness became too weak to keep up with the rest, the stronger members clubbed them to death and left them by the wayside. Civilized people have held up their hands in horror at the custom, so inhumanly barbarous, even by the most barbarous of Indians. But that custom was somewhat angelic as compared with the proposition to break down business interests, to force failures in order to hurry "the cleaning up process" after the war, regardless of the fact that every business failure means broken hearts, and sorrow and suffering to women and children as well as to men.

When it is borne in mind that this terrific power is in the hands of seven men, responsible to no one, uncontrolled by Congress or by the President, holding meetings in secret, with a foreknowledge of what they are going to do which gives them information that others would pay millions of dollars to have, is it not time for the American people to realize that the banking system which they have brought into existence for the purpose of giving us a freedom from the domination of Wall Street and its gambling speculations in money and in credit, has created a power more dangerous than Wall Street ever knew? Is it not time to demand that every meeting of the Federal Reserve Board should be open to the public, and that every decision reached should be recorded with the votes and the reasons therefor, just as is now the rule in the Supreme Court? For when that court reaches a decision the reasons for it are given in full to the public, and the votes are recorded, with a statement of the views of the opposition whenever there is a minority vote or report.

We urge every reader of the Manufacturers Record to write to Mr. Williams at Richmond and get a copy of his

speech, and we reiterate the suggestion made last week that the commercial organizations of the country should invite Mr. Williams to address them and to open up more freely than he did in his Washington address, and give many other facts which are even more important, we are sure, than are those which he has already stated.

We are strongly inclined to believe that the things which Mr. Williams knows, but which he has not yet published, surpass in importance the things which he has published. If he is not commanded before a congressional committee to give these facts to Congress, then we believe it is morally incumbent upon him to give them to the country in some other way.

RAILROAD MANAGEMENT AND SUCCESS IN LIFE.

PRESIDENT Willard of the Baltimore & Ohio Railroad in a recent statement before the Senate Interstate Commerce Commission, referring to the criticism sometimes made of supposedly high salaries for railroad officials, said:

"It is strange that the position of a railroad official is the only one in which it is discreditable to succeed."

Mr. Willard mentioned as one illustration the case of an important railroad official who had been receiving an annual salary of \$35,000, but who resigned to enter an industrial enterprise because of the more promising future; and he asked, "Is it a good thing for the transportation service to lose men of that caliber?"

Mr. Willard's question can be easily answered. It is a disastrous thing for the railroads, and that means for the country, for the transportation business to lose men of the highest possible business caliber on the mere matter of what broadly speaking is a few thousand dollars one way or the other. A man who can manage a great railroad and so develop its facilities as to furnish better transportation and to create larger traffic, is worth to the country, not merely to the railroad, but to the country at large, far more than any salary that any railroad man in America is paid.

The cry against high salaries for railroad officials is really a cry against efficiency in management, and against success in developing transportation, which is more essential really to the prosperity of the country than is production. Men of the caliber required to adequately handle railroad business could in private business activities very generally make far larger earnings than the salaries paid to them. The aggregate salaries paid to all of the higher railroad officials of the country is a mere bagatelle as compared with the importance of their work. It is not a question of salary, but a question of efficiency in bringing about better transportation, more effective handling of freight and passengers, and the creation of more business for the good of the country involved in this whole subject.

If this nation would put aside the thought that prosperity is a crime, that success must forever be denounced, that "cheapness" is to be desired, and unite in a whole-hearted support of things which make for national progress, for a recognition of the fact that a man who can command a great salary, or develop a vast business, gives far more to the country in the doing of this than any possible amount which he individually can earn for himself, it would be the country's material salvation.

Some men are born for great generalship on the battlefield; some are born with a spirit of poetry; some with a spirit of the artist; some as great orators; and others are born with the initiative and the power of vast constructive enterprises. The one is just as much the product of nature as is the other. Not every man can write a

great poem; not every man can paint a picture before which the world will stand with head uncovered; not every man can by the power of eloquence move an audience; not every man can be a leader in science and art; not every man can be a great upbuilding force in the opening of mines, the building of furnaces and mills, or the creation and the management of railroad systems.

To deery success in one line would be as foolish as to deery success in another. To denounce the painter or the sculptor, or the orator for his creative work beyond that of other men, is just as silly and absurd as to denounce the constructive power of the man who can build or run a railroad, who can build or manage a great factory, or open a mine; or the chemist who with his touch can change the simple things of the material world into the marvels which we are constantly using.

Mr. Willard is right. Railroad officials, when efficient for the great responsibility which rests upon them, are entitled to high salaries. And this is true as to other enterprises.

Until the Almighty changes the form in which humanity has been created, until He levels the mountains of the physical world and makes them even with the valleys, until He causes every tree to grow of the same size and same shape, until He makes every flower to have exactly the same colors and the same odor, until He makes the rough piece of granite equal to the diamond in desirability, until He causes every child born on earth to have exactly the same features and the same mental and physical characteristics as every other child, the fight against success, the denunciation of one man because he rises above his fellow men as a leader, will be in vain, and will only create hatred where there should be love, and social unrest where there should be harmony and peace.

Until we can fathom the mysteries of creation and change the plans of the Almighty, and make the white man black or the black man white, and make the climate of every part of the world exactly the same, we must learn to accept some conditions as God has created them.

AN INSPIRATION FOR YOUNG MEN.

TWO comparatively young men, both of whom started life without any special advantages and whose careers have been somewhat similar, are Charles E. Mitchell the new president of the National City Bank of New York, and Thomas Hildt who has just been called back from the vice-presidency of the Bankers Trust Company of New York to become the president of the Merchants National Bank of Baltimore, with which the National Bank of Commerce is to be combined.

These men were without any pull, but they had unending push. Their success was based on their energy and activity and their determination to be always ready for the job just ahead of them. Thousands and tens of thousands of young men in this country are always bemoaning their fate and denouncing the world in general on the ground that they have no chance. A man makes his own chance by fitting himself to be ready for whatever opportunity may come. No man knows when it is coming, but it will never come to the man who is not ready for it.

Commenting on the election of Mr. Charles E. Mitchell to the presidency of the National City Bank of New York, the Philadelphia Ledger said:

"Mr. Mitchell owes as much to ginger, pep and punch and character and as little to luck as any man who has risen to business eminence in America.

"He put in the hardest kind of licks of hard work to get where he now is. Nothing was handed him. He went after all he got.

"When he left college he landed a job in Chicago at

\$10 a week. He saved some of it. Instead of the cabaret circuit he went to night school and studied business.

"Men who danced to the wee, small hours and went to the afternoon teas are working for him now. But he doesn't remind them of it.

"Work always has been my chief pleasure in life," he says.

"Be on the job early and stick to it as late as necessary."

"His record is the reason why he is trusted.

"Business is forever looking for men like that—the men who, in Mr. Mitchell's own words, don't run away from responsibilities.

"People who know nothing about the way Mitchell got there may call him 'lucky.'

"But those who know the man and the circumstances are not so foolish as to call it 'luck.'

"He came up fighting all the way. Fate granted him no special favors. He worked, and he got what he worked for. His story-book biography may happen to any boy who has the will to win."

When Mr. Thomas Hildt, formerly an officer of the National Bank of Commerce of this city and afterwards vice-president of the Bankers Trust Company of New York, resigned the latter position to accept the presidency of the Merchants National Bank of Baltimore, the American of this city asked him to what particular side of his character he accredited his rapid advancement. Mr. Hildt at first refused to discuss himself, but when pressed by the American to give an answer to its question, he said:

"Well, I suppose close application to whatever work I may undertake has always come first with me. By close application I mean learning every detail of a job, looking at it from every possible—and sometimes impossible—slant, getting a line on the other fellow's job, so that I could take it up if ever opportunity came my way. Next to this, I should say that knowing what you want and sticking to it is a great help. Too many people change from this thing to that, and get nowhere in consequence."

In the success of these two young men—Mr. Hildt is 36 and Mr. Mitchell 43—there is inspiration for every other young man. Not all young men can become great bankers; not all of them can become great, outstanding business men; but many of them will become great leaders in finance and industry, and it will depend upon the men themselves to a very large extent as to which ones shall reach the pinnacle. No one will get there who is not ready for the job that may be ahead. No one will get there who is bemoaning his fate and his lack of opportunity. No one will get there who is not willing to throw his whole soul into the work, regardless of the number of hours that he may have to give to it, or as some call it to the "grind."

And yet there should be no grind in any man's employment if he will recognize that his work, whatever it may be, is a work that must be done, and determine to do it better than anybody else.

An old saw-maker once explained his ability to win the highest prize at a World's Fair for one of his wonderful saws by saying that into the making of this saw he threw his whole power until, as he said, "I could feel my very life going into the saw."

No one who cannot feel his whole life going into the job that he is doing will be fitted for another job. Whether he likes his present job or dislikes it, so long as he is doing it his opportunity is that job.

According to an estimate made by F. W. Gist, agricultural statistician, peanut vine hay produced in Alabama last year totaled 103,899 tons. These figures cover only the peanut growing section of Southeast Alabama and Mr. Gist says the total for the entire state would be around 189,000 tons, which at an estimated value of \$10 a ton would reach \$1,890,000.

Man's God Given Right To Work, Unbossed By Radicalism

NO words can adequately express the appreciation which we have for the letters from subscribers and advertisers in commendation of the position that the Manufacturers Record has taken in regard to the printers' strike and the difficulties under which we are now printing the Manufacturers Record in Richmond. Many of our subscribers, and indeed a number of our advertisers, have written saying that if the situation should become so acute that we could not publish even for a year they would be entirely satisfied to pay their bills without receiving a copy, or without their advertising appearing, as an expression of their desire that we should never give up the fight.

We are sure that our readers everywhere would be greatly interested in these expressions of commendation and hearty endorsement of what this paper has stood for in the past, and its relation to the welfare not only of the South, but of the entire country, but unfortunately the limitations of space do not permit the printing of these letters. They voice a sentiment, however, which is appreciated by the Manufacturers Record to the highest degree, and we trust that the work which we may be able to do in the future will justify all that these letters are now saying.

Many of these letters discuss with very great interest the labor situation from many angles. Whenever the labor situation is discussed every writer bears testimony to the extreme danger to the safety of America of the dominating effort which labor unions are now making to control the entire country. The future of this land and the future of human liberty itself, are at stake, for as goes America so ultimately will go the world on the great issues which now confront all civilization.

In a superb address delivered before a joint meeting of the Southern Hardware Jobbers Association and the American Hardware Manufacturers Association, Mr. Peter O. Knight of Tampa, Fla., widely known throughout the country as one of the most brilliant lawyers in the land, discussed the great questions which now confront our country, and referring to the labor situation said:

"We are going to notify Sam Gompers and the other leaders of the American Federation of Labor that we are not going to continue to live under the constitution of the American Federation of Labor, but under the Constitution of the United States. We are not going to live under the red flag of socialism, but under the American flag."

That is a statement which every true hearted American must enthusiastically approve. The American Federation of Labor and all of its cohorts with the radical labor leaders of the country are trying to force their constitution upon this country and demand that it shall be superior to the Constitution of the United States. In the radicalism which has been developed during the last few years, and more especially since the Adamson Bill of evil fame was passed in 1916, by the cowardly surrender of Congress and of the Administration, we have been reaping the evil effect of the dragon's teeth which we then sowed. Well was it said by one of the great business leaders of the country at that time that "the Adamson Bill was the most momentous issue which had ever been accepted by Congress, and that upon it the fate of the nation would be decided."

The fate of the nation is now being decided. Let no one fail to realize that fact. It is being decided by the American people in the contest which is being waged against the domination of this country by radicalism and socialism and bolshevism which are at work in the labor

unions of the land, misleading thousands of honest-hearted, patriotic members of these unions, and making them the allies and abettors and the upholders of all of the criminal activities against the individual man, against property and against human liberty, which are being put forth by radical labor leaders.

We have faith, however, that Lincoln stated the truth when he said that liberty should not perish from the earth, and that this government "of the people, by the people, for the people" would survive. With a full appreciation of the tremendous issues which were at stake when Lincoln made that memorable address at Gettysburg, we have no hesitation in saying that the issues which this nation confronts today are more dangerous to its existence than were the issues settled on the battlefield of Gettysburg. As this country could not live part slave and part free, so it can not live with a part of its people seeking freedom and liberty if others of its people should succeed in enslaving the nation under the domination of labor unions. Every man who loves his country, who loves the Stars and Stripes, who would help to save the liberty of this country and of the world, needs to be awakened to the situation and to stand for the liberty of every man to work when and where he pleases, and at whatsoever wages he is willing to accept, and for the right of every man to employ men, whether they be non-union or union men, without the dictation of any organized body which undertakes to say who shall work and who shall not work or which undertakes by might, to say that the liberty loving man who is not enchained by unionism shall have no right in America to the God-given right to work. That issue faces the country today as it never faced it before.

WORK OF THE WAR FINANCE CORPORATION.

THE War Finance Corporation has issued Circular No. 1 outlining, in a general way, the requirements of the Corporation in connection with applications for advances to American exporters and American banks, bankers, and trust companies for the purpose of assisting in the exportation of domestic products. The circular recites the law under which the Corporation is operating and sets forth the procedure that should be followed in making applications for advances. It also indicates the papers, documents, and other evidence required by the Corporation in connection with advances and includes suggested forms of application. Copies may be obtained by exporters, bankers, and other interested parties upon application to the War Finance Corporation, Washington, D. C., or to the Federal Reserve Bank in the district in which they are located.

Coal Production in the United States.

The weekly coal report of the United States Geological Survey says that the total output of soft coal during the week ended May 7 including lignite and coal coked at the mine, is estimated at 7,296,000 net tons, an increase of 326,000 tons as compared with the previous week. The production of anthracite coal declined sharply, the output being 1,633,000 net tons, a decrease of 312,000 tons as compared with the previous week. The production of beehive coke also declined, the estimated total output for the week being 70,000 net tons, a decrease of 2,000 tons, and the tonnage for the week was less than the daily average output during the first four months of last year.

The Peril of Labor Union Tyranny Not Understood Throughout the Country.

Lincoln Motor Company,

Detroit, Mich., May 7, 1921.

Editor Manufacturers Record:

Thank you for your information of April 27. You certainly can depend upon my forbearance. I only hope you are strong in endurance and will not yield to the unjust demands made upon you.

Your labor troubles may even result in unsuspected good, for with a new personal first-hand encounter with the tyranny of organized labor you are competent vividly to arouse our unsuspicious country to the danger of this subtle and malicious enemy of property, government and personal liberty.

If YOU do not speak, where else can the country learn the peril of fondling this viper in its bosom? Well you know that the newspapers, with a very few exceptions, are already muzzled by this monstrous blood-sucking oligarchy, which also stretches out for control of the preaching, the teaching and other sources of public information. The ruin of our civilization is in sight when our papers, our magazines, our school books, our priests and professors, from whom we get our information, are bulldozed or blinded into silence or to the misrepresenting of a gross evil as a public good.

Governor Allen of Kansas says there are 150,000 professional leaders of labor in the United States, who are drawing \$60,000,000 a year out of the slender pockets of union men. How is there to be industrial peace so long as 150,000 soft-handed radicals have their eyes on that \$60,000,000? Where has there been a justifiable strike; and where a labor disturbance that is not fomented by lawless professional labor disorganizers? This country, as well as many countries in Europe, will in the near future be under the control of radicals if this deadly stranglehold on the sources of public information is not broken.

How swiftly the American people would arise to smite this evil if they understood its heart! How chagrined some preachers and professors when they receive that revelation! But how can they gain that knowledge until the now controlled sources of information are emancipated from their thralldom?

In your present trouble you are fighting for the whole American people against the greatest present foe of American ideals. May the time never come when you will have to submit your news columns or you editorial utterances for the approval of an organization which defies the laws and gains its selfish ends by violence and intimidation.

HENRY M. LELAND,
President.

And Three Hundred Southern Men Jumped to Their Feet and Applauded the Statement!

[Despatch to The New York Herald.]

Atlantic City, N. J., May 12.—Peter O. Knight, a prominent Democrat and one of Florida's leading lawyers, brought every man in the ballroom of the Marlborough-Blenheim to his feet today when, coming to the close of a crisp and forceful summary of conditions now facing business, he declared:

"Last fall liberty-loving and constitution-loving men, real Americans, said they were through with phrase-making, half baked theories, damn-foolism, mental joy-riding and intellectual sky-climbing and were going to get back to the constitution and common sense.

"If it had not been for the negro question in the South that magnificent gentleman who sits in the White House would have carried every State in the Union.

"We're going to notify Sam Gompers and the other leaders of the American Federation of Labor that we are not going to continue to live under the constitution of the American Federation of Labor, but under the Constitution of the United States. We're not going to live under the red flag of Socialism, but under the American flag.

"When the labor and tax problems are settled confidence will be restored, and when confidence is restored there will be prosperity in this country such as has never before even been dreamed of."

The most remarkable thing about the demonstration was that at least half the men who sprang to their feet were Southern business men, members of the Southern Hardware Jobbers Association. Their applause was at least as hearty as that of the others present at the joint meeting, members of the American Hardware Manufacturers Association, almost all of whom were from sections other than the South.

It was plain that Mr. Knight, general counsel for the Southern organization, had lost nothing with these other Southern Democrats by his strong language.

Moroccan Phosphate Beds—Wealth of 1,400,000,000 Tons of Commercial Phosphates Available.

[The French Commission in the United States]

Phosphate beds of Morocco are among the most important in the world. They cover over 1,000 square kilometers and form a triangle, limited on the south by the "Oued" Oum-er-Rbia, to the east by a line starting at the confluence of the "Oued" bel Kherraf ending at the "Oued" Zem, to the west by a line starting at Mechra-ben-Abbou ending also at the "Oued" Zem. The bed does not seem to go further north than the railroad from Casablanca to "Oued" Zem. At its broadest, between El Boroudj and Zem, it measures 75 kilometers.

From the topographical point of view, the bed presents the appearance of a plateau, rising gradually from the north to the south. This plateau is criss-crossed by a number of "Oued" which flow into the Oum-er-Rbia, which receives practically all of the waters of the Tadla district. The configuration of the country has made prospecting for the phosphate beds a very simple matter. The beds themselves run, in general, from north to south. They rest on slabs of sinonian chalk and are covered by very hard beds of iocene chalk from 40 to 50 centimeters thick which have the appearance of projections from the generally flat surface. The beds are rather muddy and alternate with beds of muddy chalk. The number of alternating layers is greater in the south where they average 30 meters in total depth with six layers than in the north where they average 20 meters in total depth with three layers. The alternating factor has been caused by erosion and it is this erosion which has made the neighboring land so rich in agricultural possibilities. Some of the phosphate beds of the north are only 50 centimeters thick and are, for this reason, impossible to exploit industrially but the majority measure from 1 to 5 meters, some beds being 8 meters thick. As the thickness of the beds varies, so does the richness of the phosphate obtained, it showing, on analysis a minimum of 49.60 per cent phosphate in the neighborhood of El Boroudj and rising to a maximum of 80.75 in the neighborhood of Zem. The average for the Tadla, 68 per cent pure phosphate, is equal to the average of the Redeyef, region in Tunis, and is slightly inferior in quality to the average in Florida.

Conservative estimates of the total commercial phosphates available in the Moroccan beds places it at 1,400,000,000 tons. The importance of the beds of France is made clear by the following figures: World phosphate production in 1913 totalled 6,850,000 tons of which 2,500,000 tons were furnished by French Africa and 3,150,000 tons by the United States of America. With the development of the Moroccan beds, France will be able to place rich phosphate in any section of Europe at a considerably lower price than American phosphate now costs. It is for this reason that concessions for the development of the phosphate beds of the Tadla are being eagerly sought and it is for the same reason that the Sherifian Government has reserved to itself a portion of the profits which are to be derived from the working of the beds.

\$80,000,000 of Building Permits In One Hundred Southern Cities--- \$100,000,000 Involved In Four Months

For the first four months of 1921 37,465 building permits for all classes of construction have been issued in 50 cities of the South representing an expenditure of approximately \$79,986,472, which with allowance for undervaluation at a minimum figure would indicate the fulfillment of a new building program for these cities alone with a total valuation of upwards of \$100,000,000. To this must be added the large carry-over of uncompleted projects for which permits were issued during the latter part of 1920 and also those projects which have been started during this year the permits for which were issued last year but which were delayed for one or another reason.

Then, there is the vast amount of money involved in the scores of other cities and suburbs for which no definite figures are available as to the amount of construction actually under way. But one thing is certain and that is that while the building program in representative Southern cities is about 20 per cent less in valuation of projects than that of last year, allowing for a reduction in valuation this year over last year it will be seen that the building program this year is equal to or even greater than that of last year. Residence construction figures more and more prominently each month in construction throughout the South far exceeding construction of this character last year. Early reports for permits issued in the various cities for the month of May indicate a further spurt in construction activities, especially of dwellings. Indications are that the total involved in residence construction as well as miscellaneous projects will be steadily increased in many cities during the coming months. Prices of building materials have reached an encouraging level, and most of the building programs now being delayed are due primarily to unsettled labor conditions and the refusal of building artisans and laborers to accept reduced wages. But most of these will no doubt be settled in the near future and additional projects will get under way.

Estimated Valuation of Building Permits Issued in Southern Cities During First Four Months of 1921.

	No. of Permits.	Total Valuation.
Alabama:		
Birmingham	1,840	\$ 1,923,001
Montgomery	365	157,086
Arkansas:		
Little Rock	804	977,464
Pine Bluff	107	198,105
District of Columbia:		
Washington	2,385	5,607,337
Florida:		
Jacksonville	1,049	1,615,561
Miami	885	1,250,400
Pensacola	247	577,141
St. Petersburg .....	.....	1,175,025
Tampa	516	1,469,520
Georgia:		
Atlanta	1,086	3,013,024
Augusta	606	266,327
La Grange	30	52,450
Savannah	210	397,915
Kentucky:		
Louisville	1,035	2,113,400
Lexington	255	422,550
Covington	208	283,075
Louisiana:		
New Orleans	847	2,335,174
Shreveport	970	1,103,975
Maryland:		
Baltimore	4,659	16,802,800
Cumberland	152	356,885
Missouri:		
Kansas City	1,293	4,066,700
Springfield	273	270,682
St. Louis	3,214	3,149,430
North Carolina:		
Asheville	310	411,945
Durham	62	186,323
High Point	71	170,328
Charlotte	173	571,227
Wilmington	59	118,750
Winston-Salem	407	609,953

Oklahoma:		
Tulsa	750	2,763,325
Muskogee	106	313,505
Okmulgee	184	889,400
South Carolina:		
Charleston	161	553,104
Columbia	308	385,060
Greenville	237	385,060
Tennessee:		
Knoxville	487	839,334
Chattanooga	755	1,123,774
Memphis	900	2,039,785
Texas:		
Houston	2,117	2,826,393
Galveston	1,665	401,184
El Paso	541	1,431,445
Dallas	1,565	4,966,712
Fort Worth	703	1,624,844
Virginia:		
Richmond	671	2,792,969
Norfolk	325	1,208,994
Roanoke	369	514,220
West Virginia:		
Charleston	416	971,789
Huntington	623	1,533,905
Wheeling	359	481,142
Totals	37,465	\$79,986,472

During the month of April building permits issued in 60 Southern cities had a total valuation of approximately \$28,682,068, compared with the total of \$24,558,608 representing building permits issued during March in 63 cities. Reports for March and April from 56 cities indicate issuing of permits for the two months as \$23,167,025 and \$28,481,111, respectively, representing a gain of more than 20 per cent, in the amount of money involved, which is equal to the gain in valuation of building permits issued in March over those issued in February. Reports from 58 cities place the total valuation of permits issued at \$22,097,486 and \$18,057,958 for March and February, respectively.

Building Permits Statistics

	April		March	
	No. of permits.	Estimated cost.	No. of permits.	Estimated cost.
Alabama:				
Birmingham	514	\$479,842	506	\$700,106
Montgomery	113	52,360	50	38,114
Arkansas:				
Little Rock	214	251,949	267	251,949
Pine Bluff	39	96,510	27	50,335
District of Columbia:				
Washington	868	2,293,942	734	1,714,284
Florida:				
Jacksonville	283	285,472	293	360,470
Miami	288	424,300	220	396,700
Orlando	101	106,604	...	...
Pensacola	75	55,282	99	158,480
St. Petersburg	174	357,950	164	271,425
Tampa	158	512,628	145	571,562
Georgia:				
Atlanta	324	778,328	350	1,094,164
Augusta	187	67,218	184	103,233
La Grange	9	9,400	9	23,850
Savannah	65	117,760	53	132,760
Kentucky:				
Louisville	424	554,200	352	542,200
Lexington	103	193,870	104	149,995
Covington	76	112,600	76	108,775
Louisiana:				
New Orleans	277	652,625	277	620,132
Shreveport	291	345,595	259	288,785
Maryland:				
Baltimore	2,072	8,305,200	1,515	2,673,720
Cumberland	59	91,660	58	225,680
Frederick	16	21,478	...	...
Mississippi:				
Meridian	4	14,600	15	61,943
Jackson	70	43,000	...	...
Missouri:				
Kansas City	375	757,750	441	1,037,900
Springfield	75	111,957	99	97,710
St. Joseph	109	67,090	110	61,180
St. Louis	1,077	1,127,155	1,079	974,405
North Carolina:				
Asheville	101	147,066	113	111,789
Durham	23	30,875	24	118,416
High Point	29	69,670	25	50,758
Charlotte	52	154,127	53	110,375
Wilmington	16	36,500	14	31,400
Winston-Salem	163	177,150	136	236,735
Oklahoma:				
Oklahoma City	216	672,472	347	1,028,487
Tulsa	221	612,175	231	770,600
Muskogee	41	147,745	43	130,900
Okmulgee	56	431,650	48	169,900

South Carolina:				
Charleston	37	88,915	47	200,358
Columbia	103	387,455	105	130,615
Greenville	56	87,455	70	142,445
Rock Hill	27	29,875	...	...
Tennessee:				
Knoxville	173	287,898	181	278,743
Chattanooga	249	169,039	214	118,649
Memphis	248	426,312	283	631,440
Nashville	233	130,903	337	137,208
Texas:				
Houston	588	1,180,445	644	751,311
Galveston	429	101,402	484	103,469
El Paso	183	548,685	165	527,553
Dallas	448	1,503,845	474	1,503,349
Fort Worth	190	600,919	243	450,810
Austin	22	30,560	22	19,009
Virginia:				
Richmond	254	760,947	194	1,062,911
Norfolk	111	204,011	108	465,269
Lynchburg	40	38,750	21	26,125
Roanoke	135	217,700	125	182,250
West Virginia:				
Charleston	147	299,839	148	368,078
Huntington	194	460,545	263	467,572
Wheeling	132	259,403	122	130,824

\$30,500,000 for New Construction South in Week Ended May 20.

Announcements made in the construction columns of the Manufacturers Record for the week ended May 20 indicate the expenditure of approximately \$30,500,000 in the completion of building projects throughout the South for which contracts were awarded and those for which initial announcements were made.

School building construction holds first place in the week's total, \$7,445,000 representing contracts to be awarded and \$617,000, contracts actually awarded. The large amount representing projects for which bids will soon be requested indicates the vast amount of new construction of this kind that is to be done during the summer months in order that the school buildings will be available for use next term. Many cities will vote on issuing school bonds in the near future, and this will swell the total for this classification by a large amount.

Roads, paving and bridge projects are well to the fore with \$6,062,000 as the value of contracts to be awarded and \$1,862,000 as the total of contracts awarded during the week. This work, too, will be vigorously pushed during the summer, and millions of dollars is involved in the completion of road projects that are already well under way in Southern cities. Labor's willingness to accept lower wages has stimulated this construction in many sections, and work long delayed is now going forward to completion.

Summary for the Week.

	Contracts to be awarded	Contracts awarded
Dwellings	\$ 918,430	\$341,500
Apartment houses and hotels	2,264,000	568,000
Bank and office buildings	712,000	350,000
Church buildings	1,180,000	140,000
School buildings	7,445,000	617,000
Stores	240,000	...
Association and fraternal	530,000	...
Roads, paving and bridges	6,062,000	1,862,000
City and county projects	520,000	...
Sewers, drainage and water works	1,897,000	261,000
Miscellaneous enterprises	3,528,700	1,350,000
	\$25,297,130	\$5,489,500

\$25,000,000 of Bonds to Be Issued for Additional Water Power Developments.

Birmingham, Ala., May 21—[Special.]—The stockholders of the Alabama Power Co. have approved plans of the directors for changing the authorized shares of stock with the exception of the 7 per cent cumulative preferred stock heretofore sold, into stock without nominal or par value, and also authorized a new bond issue of \$25,000,000. The action was taken with a view to developments which the company has in mind, the Mitchell dam at Duncan's Riffle on the Coosa river being the most immediate. The entire program was recently approved by the Alabama Public Service Commission.

\$14,000,000 Forwarding Contract Awarded Baltimore Firm—Shipment of 3,100 Frame Houses to France and Belgium.

Plans have been completed for shipping through the port of Baltimore 3,100 two-story frame houses of the Dutch Colonial type for use in rebuilding the devastated regions of France and Belgium, it was announced last week by the Export and Import Board of Trade. Through the efforts of Baltimore forwarding interests the shipment of these houses was diverted from New York. It is regarded as an indication of the upward trend in the tide of the shipping industry.

The Walford Forwarding Corp., R. C. Sturtevant, manager, Baltimore, secured the contract which involves approximately \$14,000,000. The houses are made in North Tonawanda, New York, by the Ray H. Bennett Lumber Co. It will require approximately 3,100 freight cars to move the consignment, one complete house being shipped in each car. The ocean freights, it is said, will total about \$4,000,000. The total shipment will mean full cargoes for 25 vessels of 7,500 tons each.

Baltimore's \$800,000 Sugar Refining Plant.

Officials of the American Sugar Refining Co., who made an inspection of the new refinery being erected in Baltimore, last week expressed the belief that the refinery would be ready for business by next May, which would mean that the plant would be completed in two years rather than the original three years calculated as required. The work was started early last year. New railroad yards have been built by the Baltimore & Ohio; the city of Baltimore has constructed a concrete bridge, made changes in the water and sewer lines; and much similar preliminary work has been completed. More than 27,000 wooden piles have been driven for foundations, 9,000 tons of steel placed, in addition to precast concrete sections. Nearly 300 scow and barge loads, of sand and gravel and 2,500 car loads of material have been used.

\$500,000 Building Program at Ballinger, Texas.

Ballinger, Texas, May 20—[Special.]—This place has a \$500,000 building program for 1921. In addition engineers are engaged in making a complete survey of one of the biggest irrigation projects in the country, providing for a dam 2,000 feet long and 125 high with a lake 24 miles long.

In addition to residences, business houses, water works improvements, and street paving the following projects will be under way within the next few months: \$50,000 ice plant; \$75,000 municipal light plant; \$75,000 Baptist Church; \$35,000 school building; \$30,000 automobile sale rooms, and a \$50,000 Federal building.

To Erect 12-Story Office and Bank Building.

Miami, Fla., May 20—[Special.]—A 12-story bank and office building is to be erected here for the First National Bank after plans by Mowbray & Uffinger, architects, 58 Liberty street, New York City. Bids will be received at the architects' office until June 8. It will be a fireproof structure. Granite and limestone will be used in finishing the first three floors and the upper floors will be finished in brick and terra cotta.

Foreign Demand for Sulphur Increases.

Galveston, Texas, May 20—[Special.]—A demand has been noted recently for Southern sulphur in foreign markets. Sulphur is being shipped to South American countries in bulk and in bags, and the demand in the future is expected to greatly increase. Within a short time a cargo of the material will be shipped to Australia.

\$10,000,000 in Charleston Building Projects.

Charleston, W. Va., May 21—[Special.]—According to information compiled by the Real Estate Board recently, there are under construction or shortly to be started here building projects involving a total expenditure of more than \$10,000,000. Already work has begun on projects to cost \$3,140,000 and within the next few months other work to be started will necessitate the investment of over \$8,600,000. Included in the work now under way are 309 dwellings costing \$1,800,000 and 14 apartments valued at \$280,000, which totals more than half of the entire valuation of work now in progress. In addition there are five garages, costing \$54,000; 33 business houses, \$470,000; five church buildings, \$343,000; a Y. W. C. A. building, \$150,000; one K. of P. hall, \$45,000.

Tenative plans have been formulated for new construction work costing \$10,762,000. This includes a miners' hospital, \$400,000; shrine mosque, \$600,000; garage and show rooms, \$40,000; hotel, \$100,000; and the \$7,500,000 new State Capitol building, for which \$2,500,000 has been appropriated for expenditure during the next two years; a Baptist church, \$200,000; jail and sheriff's residence, \$400,000; extension to court house, \$150,000; interurban terminal station, \$400,000; new theatre, \$500,000; and 97 dwellings, costing \$352,000.

Plan Building Exposition for Baltimore.

Plans are being pushed for an "Own Your Home" exposition to be held in Baltimore under the direction of the Real Estate Board. The object of the exposition is to encourage thrift and home building. There will be many exhibits showing the use of the various materials as well as modern appliances making for convenience and comfort. Among those on the committee in charge of preparations are: Charles H. Steffey, Edward H. Bouton, Henry L. Frank, John J. Hurst and George R. Morris.

\$150,000 Improvements to Bank Building at Atlanta.

Atlanta, Ga., May 20—[Special.]—Plans are being prepared for alterations and improvements which will cost \$150,000 to the Citizens & Southern Bank. Mowbray & Uffinger, 56 Liberty street, New York City, associated with Morgan & Dillon, of Atlanta, are the architects. The work will include new marble and bronze fixtures and an electric elevator.

\$300,000 Hotel for Mexia, Texas.

Mexia, Texas, May 21—[Special.]—Plans are under way for the construction here by the Mexia Hotel Co. of a \$300,000 hotel. The structure is to be 6 stories high with a basement. It will be built of steel and reinforced concrete and have two elevators. Hubbell & Green, of Dallas, are the architects.

\$250,000 for Elizabeth City School Buildings.

Elizabeth City, N. C., May 21—[Special.]—Plans and specifications are being prepared by Milburn, Heister & Co., architects of Washington, D. C. and Durham, N. C., for three school buildings here. W. L. Small, is chairman of the building committee, and \$250,000 has been appropriated for the three structures.

\$400,000 Temple Building for Tulsa.

Tulsa, Okla., May 21—[Special.]—The Adkar Corp., A. C. Farmer, president, plans the erection at Fourth and Denver Streets of a shrine temple to cost \$400,000. The structure is to occupy a site 140 by 158 feet, and is to be fireproof, of steel and concrete, and to contain a theatre, ball room, banquet and lodge rooms.

Atlanta Building Program Extensive.

Atlanta, Ga., May 20—[Special.]—Records here show that more permits for residences have been issued since April 1 than in any corresponding period since 1910. In April, 118 permits were issued for homes and during the first two weeks in this month 57 residence permits were issued. At the first of the year the estimated shortage of houses was 6,000. Up to May 17 a total of 365 residence permits had been issued, representing an aggregate expenditure of \$1,699,376. A summary of the classes of structures is as follows: Residences, 375, costing \$1,266,065; 9 apartment houses, costing \$344,603; 33 business houses, costing \$630,050; and three church buildings, costing \$101,500.

Contract Awarded for \$500,000 Masonic Temple.

Danville, Va., May 21—[Special.]—Contract has been awarded Parks & Co., of Chattanooga, Tenn., for construction of the \$500,000 Masonic Temple here. Plans were prepared by F. F. Farris, architect, of Wheeling, W. Va. Last October the bids submitted for the structure were about 50 per cent higher than the contract price just made. It will be a 10-story reinforced concrete structure with terra cotta trimmings, marble corridors and an arcade entrance midway.

\$150,000 College Building for Greensboro.

Greensboro, N. C., May 21—[Special.]—Contract has been awarded for the construction of a building 132 by 156 feet for the Greensboro College for Women to J. L. Crouse, Greensboro, N. C. Plans for the structure, which will cost \$150,000, were prepared by A. Ten Eyck Brown, of Atlanta. The building will be of semi-fireproof construction, with tar and gravel and tin roof. A low pressure steam heating system will be installed. The building will be used for a musical auditorium.

Fayetteville to Have New School Buildings.

Fayetteville, N. C., May 21—[Special.]—Two school buildings will be constructed here after plans and specifications by Milburn, Heister & Co., architects of Washington, D. C. and Durham, N. C. The Board of School Commissioners, of which John A. Oates, is chairman, will supervise the work.

Surveys Under Way for Deep Water Canal Across Florida Peninsula.

The Daytona, Fla., Daily News reports that Mr. Henry H. Read of New York is making a survey, reported to be in the interest of steamship lines operated between New York and New Orleans, for a canal across the Florida peninsula from a point a few miles below Daytona at Mosquito Inlet, to Port Inglis on the West Coast. According to Mr. Read's statement quoted by the Daytona News, this canal would shorten the steamer route from New York to New Orleans by more than 1,000 miles. It is reported that in addition to the steamship interests operating lines between New York and New Orleans, other lines operating to Mexico are behind the investigation. The plans call for a 35-foot canal, 300 feet in width, and Mr. Read reports that the canal should be completed within three years time.

For many years efforts have been made to bring about the building of a canal across the Florida peninsula in order to reduce the time of steamers to and from Gulf ports to Atlantic Coast points, and in order to lessen the sea dangers.

Automatic Train Control on a Trunk Line Railroad.

A contract has been awarded by the Chesapeake & Ohio Railway Co. to the American Automatic Train Control Corporation, 1105 American Building, Baltimore, to install a complete wayside light A. C. signal and train control system extending from Charlottesville to Staunton, Va., 40 miles, the corporation having previously completed the installation of 21 miles between Gordonsville and Charlottesville, including all engines on that division.

The success which has attended the operation of the system on the 21 miles mentioned under all weather conditions and over a long period, with a testing out under service conditions nearly a year, resulted in the awarding of the new contract for 40 miles and it is also intended by the railway company to further extend the control system to Clifton Forge, 57 miles, and eventually over the main line to Cincinnati.

The stated advantages of this system of train control are prevention of wrecks through misunderstanding of orders, running past wayside signals, open switches, broken rails, washouts of bridges or otherwise, two trains entering the same block, etc., this including electrical speed control. The conditions of the initial installation on the Chesapeake & Ohio Railway were that the control system should protect passenger and freight trains on the most congested single track section of the main line for three years and it is stated that these conditions were met, with the result that the new contract was given.

The signal engineer of the road is quoted as saying, that some of the results obtained are elimination of the manual block, a considerable increase of train movements, a large decrease in overtime for train crews, a 4-minute interval with clear block for following movements, and a positive check on automatic block signals. A particularly severe test of the system occurred when there was a heavy snow with a temperature of 4 degrees below zero, during which it operated without fail. At one time there was some trouble resulting from ordinary frost on the ramp rail that is used, but that was corrected by a modification of the apparatus.

It is also interesting and important to observe that recognition of the success of train control is given in the new Transportation Act which provides that the Interstate Commerce Commission may, after investigation, order any railroad subject to the Act to install automatic train stop or train control devices, or other safety devices within a time to be stated and with two years notice before that time, this having been incorporated in the law after John J. Esch, chairman of the House of Representatives Committee on Interstate Commerce, had seen the operation of the train control system on the Chesapeake & Ohio Railway, and after the late George W. Stevens, then president of the road, had testified before the committee as to its complete efficiency and furthermore, that experience on his line showed that it had expedited traffic.

Calvin W. Hendrick, of Baltimore, is president, and Finley J. Shepard, of New York, is vice-president of the American Automatic Train Control Corporation.

Heavy Traffic on Mexican Railroads.

Austin, Texas, May 20—[Special.]—F. P. de Hoyos, general agent at New York for the National Railways of Mexico, is spending several days in Austin, having just finished an inspection trip over the Mexican lines and saying that he found them in excellent shape. Despite the shortage of equipment the lines this year will have a total gross income almost double that of a normal twelvemonth, according to Mr. de Hoyos, who cited the

fact that in the fiscal year 1910 and 1911, the best year the Mexican railroads had before the revolution, the gross earnings were \$64,000,000. This year, he said, the earnings would amount approximately to \$110,000,000 and of this amount 64 per cent would go for operating expenses.

Mr. de Hoyos explained that Mexico is doing practically four times the import business she did in 1910, most of the traffic being freight from the United States, but a large volume of export traffic, such as lumber, wood and oil, is also being carried by these lines, which recently received additional rolling stock and many locomotives. The congestion existing a month ago has been relieved and shipments are moving steadily.

"The recent strike among train and shop employees on the National lines, which lasted about three weeks," continued Mr. de Hoyos, "was nothing more than an attempt to form a federation and operate the railroads like the Plumb plan proposal in the United States. The train employees, shop men and telegraphers, all banded together and had temporary control, so that some delay to trains occurred. The government, however, soon broke the strike, yet during the strike we kept all trains moving."

Contract for 1,000,000 Barrels Fuel Oil.

Palestine, Texas, May 21—[Special.]—An order has been placed with the Swiftsure Oil Transport, Inc., of New York by the International & Great Northern Railroad for 1,000,000 barrels of Mexican fuel oil. Deliveries will be made over a period of one year, beginning July 1. The oil will come through Texas City using the facilities of the Bennett Petroleum Co., being obtained from holdings in the Tampico fields. Storage tanks, loading racks and pipe lines to the oil dock are being constructed at Texas City.

New Brake Equipment for Huge Coal Trains.

The Westinghouse Air Brake Company has designed and constructed a special equipment for handling heavily loaded trains of unusual length and weight, which it is stated marks a new epoch in railroad transportation development. A practical demonstration of the merits of this new equipment has been arranged for May 24, 25, 26, and 27 on the Virginian Railway between Princeton, W. Va., and Roanoke, Va., where it is necessary to handle enormous trains down 1½ per cent grades 11 or 12 miles long. This was the problem which the Westinghouse forces were called upon to solve, as the handling of such trains down such grades required large additional braking power as compared with the regular brake equipment. From the time that construction of the Virginian Railway was undertaken by the late Henry H. Rogers it has been the aim of those connected with it to haul the largest trains possible so as to be able to transport coal from the mines to tidewater at the lowest cost possible, and this new device is the latest step taken to maintain the ideal of low haulage cost for fuel on this important coal road.

Would Build Oil Refinery and Cotton Mill.

Fred D. Doty, Pine Bluff, Ark.

We shall appreciate being placed in communication with reliable concerns with whom to negotiate, relative to the building of an oil refinery in Pine Bluff.

We would also like to know of people who might become interested in the building of a cotton mill in this cotton growing center.

\$1,000,000 PAPER-BOARD PLANT NEAR COMPLETION.

New Iberia, La., May 7—[Special.]—The plant of the Charles Boldt Paper Mills Co. under construction a mile from this city, for the manufacture of paper board from rice straw is rapidly nearing completion. It represents an investment of nearly \$1,000,000. A. C. Bernard, chemist and engineer of New Iberia, is local manager for the company, which also has paper and glass mills at Cincinnati.

The plant, both in construction and machinery, will incorporate the most modern ideas and methods in paper manufacturing. The main buildings, 428 feet by 125 feet, are built of reinforced concrete, brick and steel, the roof of

different processes and the cool gypsum blocks do not permit this to condense at the roof and drip back to spoil the finished product in the warehouse.

Machinery is coming in fast, and operation will start in about two months.

NEW HYDRATED LIME PLANT IN GEORGIA.

Most Modern and Improved System of Hydrating and Bagging—Plant Driven Throughout by Electric Motors.

The accompanying photographs show the new hydrated lime plant of the Ladd Lime and Stone Co., Cartersville, Ga. The plant is located at Ladd's on the Rockmart division of the Seaboard Air Line Ry., about three miles from Cartersville and about fifty miles from Atlanta. Part of the plant has been in operation since September 1st, 1920, when four of the kilns were fired and one unit of the hydrating plant was put in operation a few days later.

The first step in the development of the property was the construction of a modern stone crushing plant which has



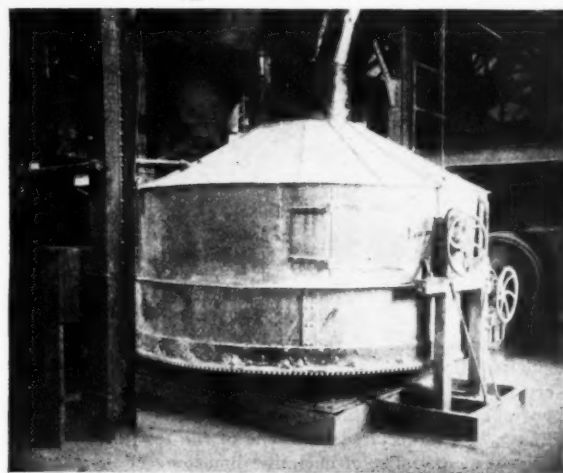
PLANT OF CHAS. BOLDT PAPER MILLS CO. NOW RAPIDLY APPROACHING COMPLETION AT NEW IBERIA, LA.

gypsum blocks. Water is secured from the Bayou Teche, at the back door. Instead of separate buildings, the digester, beater and machine houses connect in line, two overhead traveling cranes serving to facilitate these processes.

The power house, 130 feet by 50 feet, also of concrete and brick, will have a large Nordberg uniflow engine and an Ames variable speed engine, 300 tons of concrete being used in the base for the former. The big stack is 168 feet high, and was put up by Horo Heinecke, of New York. The unit will supply both lights and power.

Rice straw will be used in making the paper-board, which will be sold to box manufacturers. There are now on hand three and a half stacks of straw, aggregating 4000 tons. This is bought for \$7.50 a ton from the abundant supply in the rice belt of Southern Louisiana, and makes a splendid tough paper for box use. The finished product will be shipped in rolls weighing 1400 pounds.

Mr. Boldt, an expert in paper manufacturing, has adopted the plan of using gypsum blocks for roofing, as this solves the difficult problem of condensation. There is an evaporation of hundreds of pounds of water to a ton of paper in the



VIEW OF CLYDE HYDRATOR.

for some years been a large producer of crushed stone for concrete, road-metal, furnace-flux, and chemicals, and of ground limestone for fertilizer. The hydrated lime plant came next. Originally it was to consist of four kilns and one hydrating unit with provision made for doubling the capacity when needed. After construction work was started and the first unit about half completed, however, it was decided to double the capacity of the plant at once by the addition of another unit.



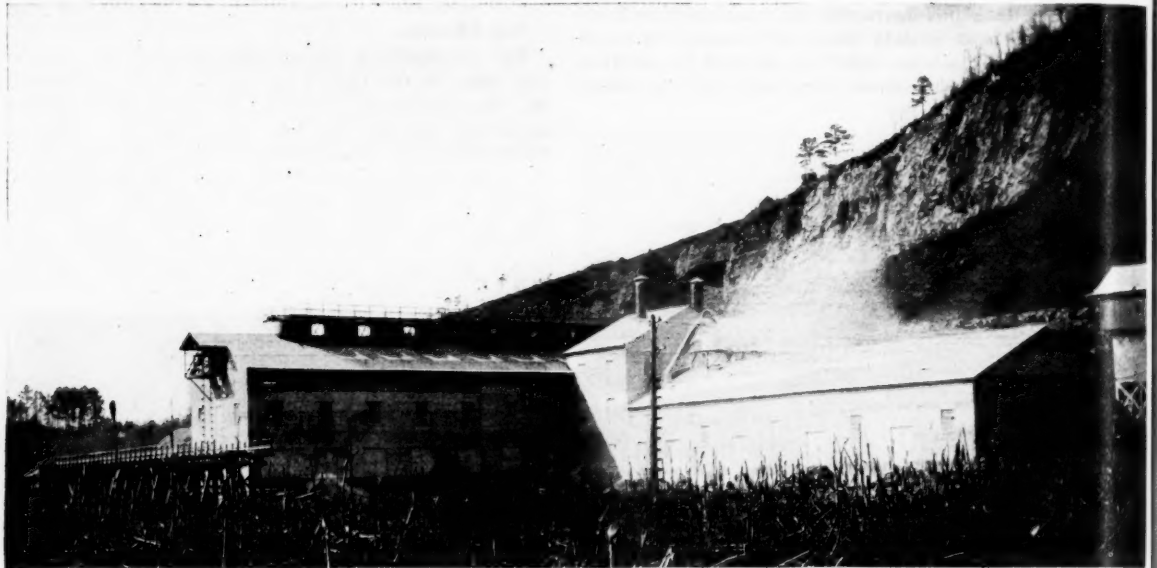
HUGE STOCK OF RICE STRAW TO BE USED IN MANUFACTURE OF PAPER-BOARD.

The lime plant proper consists of 8 vertical kilns with all modern improvements. The hydrating plant consists of two hydrating units with a combined capacity of approximately 120 tons of hydrate per day. The first unit of the plant was completed late in August and the second unit in February.

The limestone lies in the large hill which is seen rising to a considerable height above the low lands on which both the crushing plant and the hydrated lime plant are built.

placed in operation and has been thoroughly tested out by some of the best plasterers in these cities.

The lime is burned in vertical steel kilns of the latest design and is not handled by manual labor from the time the stone is dumped into the kilns until the bags of hydrate are rolled into the cars. The plant is driven throughout by electric motors, each machine having its own individual motor. The buildings are of steel with concrete floors and



LIME PLANT IN FOREGROUND. GROUND LIMESTONE AND QUARRY IN BACKGROUND.

The upper strata of the deposit consists of a very hard silicious limestone admirably suited to road material and crushed stone. The lower beds, however, consist of a very pure high dolomitic limestone which burns to a clean white lime. This is declared to be one of the few, if not the only deposit of any size, of dolomitic limestone in the far South. The following analysis will give an idea of the purity of the stone.

Silica	0.90%
Iron Oxide and Alumina	0.82
Carbonate of Lime	55.76
Carbonate of Magnesia	42.64

The new hydrate is sold under the brand name "LADCO." It has been supplied in quantity to builders and masons in Atlanta and other cities of the South since the plant was

the construction is heavy and fireproof throughout. The roofs are of galvanized iron and the siding is of expanded metal plastered with cement-stucco. In connection with the plant there is a large steel storage shed, so that the plant will always have on hand a supply of hydrate with which to fill orders.

The plant was designed and built by Richard K. Meade & Co., chemical and industrial engineers, of Baltimore, long actively identified with the development of the resources of the South. Joah Etchells was their resident engineer during the time of construction. The local officers of the Ladd Lime & Stone Co., are L. J. Backus, General Manager, E. A. Harding, Superintendent. The sales are in charge of E. L. Osborne.

FACTORY OF THE INTERSTATE WINDOW GLASS CO., OKMULGEE, OKLA.



Okmulgee is the largest glass-making center in Oklahoma, and this plant is the largest window-glass factory west of the Mississippi River and the third in size in the country. About 225 men are now employed. This force will be increased in size gradually to 600 employees. The plant has two continuous machines, 10 machines and 66 blower pots.

THE IRON AND STEEL SITUATION

Quiet at Pittsburgh—with Less Production

Pittsburgh, Pa., May 23—[Special.]—In all branches of the finished steel trade the reports are of business being quieter and production tending to decline. Inasmuch as buyers have been endeavoring for several months to reduce their stocks the indication is that the rate of actual consumption of steel has decreased. Less steel is being made than earlier in the year. While the rate has been declining steel consumption is still quite large considering the dullness in business generally. As noted in last report, production is about 250,000 net tons of finished steel a week, and that is a large tonnage.

Easily the most active of the important lines of finished steel is tubular goods in general, and in tubular goods the most active description is oil country goods, including line pipe. The Texas field is taking little material now, but West Virginia and some other fields are moderately active.

Next in point of activity come sheets, production in the past 30 days having been between 35 and 40 per cent of capacity. Most of the talk is that the sheet demand is based chiefly upon the automobile trade, but that influence is overrated. There has been a fair demand for sheets for various other purposes.

The steel trade is greatly encouraged by the decision of the Railroad Labor Board, announced last week, that railroad wages should be reduced, as a liquidation of the high labor cost of operating the railroads will undoubtedly put the railroads in position eventually to make some of their needed improvements. Already railroad credit is somewhat improved.

While there are occasional rumors of shading of prices for one steel commodity or another steel prices in general are holding very well. Shading is the exception, not the rule, and obtains only in exceptional cases where a particularly large or attractive order is involved. Prices are 2.10c. for bars, 2.20c. for shapes and plates, 2.75c. for hoops, 3.10c. for blue annealed sheets, 4.00c. for black sheets, 5.00c. for galvanized sheets, \$6.25 per base box for tin plate and \$3.25 per keg for nails.

The trade quite generally expects steel prices to be reduced further before there is any really heavy buying movement. Reductions at present would not stimulate buying, as buyers are not ready to take hold, and would involve losses to the mills since with the present very light rate of operation production costs are particularly high.

Since the Steel Corporation announced its general wage reduction, which became effective May 16, some of the independents have begun eliminating the overtime payment on the basis of the eight-hour day, i. e., they will now pay 12 times the hourly rate instead of 14 times for a day of 12 hours, and thus their wage rates will again be below those of the Steel Corporation, whose new basis is 37 cents an hour, with time and a half for hours over eight. Some of the independents are paying a 33-cent instead of a 37-cent rate. The general view seems to be that for investors to have confidence the rate for common labor should be about 30 cents an hour. This would compare with a 19-cent rate in the steel industry just before the war and a 13-cent rate in 1898. A few of the Steel Corporation's higher paid men, particularly men receiving about \$1.50 an hour, refused at the outset to accept the 20 per cent reduction but are expected to fall in line in a few days.

The steel industry is now operating at nearly if not quite 30 per cent of capacity, the Steel Corporation averaging 37 or 38 per cent and the independents a trifle over 20 per cent.

The local pig iron market remains quotable at \$23.50 for foundry, \$22 for basic and \$24 for Bessemer, f. o. b. valley furnaces, with \$1.96 freight to Pittsburgh. Connellsville furnace coke is \$3.25 to \$3.50, with foundry at \$5.00 to \$5.50.

Birmingham Market Lags.

Birmingham, Ala., May 23—[Special.]—The Southern pig iron market is still lagging, with a few sales being made in one and two car lots at the time and occasionally a 500 ton order being received. The quotations range between \$22.50 and \$25.00 per ton, with the silicon differentials varying with practically every company. Various brands of iron also play a part in the selling price of iron in this section. The make is still a little better than the aggregate sales. Local consumption is again limping, sanitary pipe making having been reduced and the cast iron pipe output to be held down until more business comes in. The latter industry estimates that by July 1-15 the railroads will be able to get into the market. In the meantime, stock on yards can fill orders right along.

Surplus iron, on yards, in Alabama amounts to more than 225,000 tons now, including basic, foundry, ferromanganese and charcoal iron. None of the larger customers of the Southern furnace companies have purchased any quantity of iron for future needs. Foundries and machine shops in this section are still confident there will be some business to be had, two of the larger plants having some work on their books enabling them to keep going to a little extent, with prospects bright for improvement before long. Building material is in better demand and sanitary pipe and fittings, small hardware, structural steel and other articles in this class are being figured on to considerable extent.

Very few men gave up their employment on readjustment of wages which was put into execution the past week by several of the corporations in the Birmingham district, the leading interest being the Tennessee Coal, Iron & Railroad Company and other subsidiaries of the United States Steel Corporation. Some of the day-wage scales were cut 20 per cent. The Alabama Company put in a 10 per cent reduction and others made similar reductions.

Steel mill operations in this district are a little better than 50 per cent now. Sanitary pipe plants which closed down two weeks ago will hardly resume until there is some improvement in business. These plants are in shape for almost instantaneous resumption. Cast iron pipe plants can start up also on short notice. These operations are about 40 per cent. Railroads are expected to buy a quantity of pipe in July or a little later.

The Cadenhead Auto Rim Company, Inc., has completed its 10-inch guide rolling mill and is pushing the work on its rim factory adjacent, machinery now being placed. It is expected to have the plant in operation early in July. Upwards of 40 to 50 men will be given employment. It is believed a second unit can be started on in the very near future.

There is a little improvement in the coal market here. The marine strike at Southern ports is affecting the coal business of this district, Mobile, New Orleans, Pensacola and other ports getting considerable coal from the Alabama mines. The coke market also shows a little improvement and starting up of a few batteries of bee-hive coke ovens gives encouragement.

The scrap iron and steel market continues very dull. The consumers of old material are confident that when they need the product they will be able to buy in any tonnage they see fit and at any price, hence are not taking

advantage of low prices obtaining now. Heavy melting steel is as low now as it has been in many years. Scrap dealers here are making a special effort with iron borings and by preparations are getting a good price for the product.

Pig iron and steel scrap quotations in the Birmingham district are as follows:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$22.50 to \$25.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$23.75 to \$26.25; iron of 2.75 to 3.25 per cent silicon, \$25.00 to \$27.50; iron of 3.25 to 3.75 per cent silicon, \$26.25 to \$28.75; iron of 3.75 to 4.25 per cent silicon, \$27.50 to \$30.00; charcoal iron f. o. b. furnaces, \$35.00.

OLD MATERIAL.

Old steel axles.....	\$15.00 to \$16.00
Old iron axles.....	22.00 to 23.00
Old steel rails.....	12.00 to 14.00
Heavy melting steel.....	11.50 to 12.00
No. 1 R R wrought.....	11.50 to 12.00
No. 1 cast.....	12.00 to 13.00
Stove plate.....	12.00 to 13.00
Old car wheels.....	12.50 to 14.00
Old tramcar wheels.....	12.00 to 13.00
Machine shop turnings.....	6.00 to 7.00
Cast iron borings.....	6.00 to 7.00

Plans of Gulf States Steel.

Birmingham, Ala., May 21—[Special.]—Plans of James Bowron, recently promoted from president to chairman of the board of the Gulf States Steel Company, one of the solid independent steel companies of this district, are to give every attention to the affairs of the company though tightening up his labors by shifting the duties of president to the shoulders of Charles A. Moffett, formerly vice-president and general manager. Mr. Moffett, who has had many years experience in iron and steel works and in the handling of labor, will retain the position of general manager. Mr. Bowron shortly after the summer starts on the wane, will leave on an extended tour of Europe.

The Gulf States Steel Company is in splendid shape, financially, physically and otherwise. The labor, though getting intermittent work, is in fine shape, holds good feeling towards the company and feels sure of a favorable thought at all times on the part of the officials. The company has no bonded indebtedness. Its plants are in fine shape, recently the Shannon mine, the first of the deep ore mining projects of the state, was completed to the vein and is now producing 400 tons daily, with possibilities of a much greater tonnage as the product is needed. The ore and coal reserves of the company are now sufficient for many years to come. Mr. Bowron is one of the oldest and best informed iron and steel men in the South. For many years he was connected with the Tennessee Coal, Iron & Railroad Company before its absorption by the United States Steel Corporation. He reorganized the Southern Iron & Steel Company into the Gulf States Steel Company and is responsible for the great success attained by that concern, surrounding himself with a most competent set of officials.

Early and Modern Iron Making in Pennsylvania.

A delightful and most interesting booklet full of information concerning the early manufacture of iron in this country is "Two Centuries of Iron Smelting in Pennsylvania," written by Richard Peters, Jr., manager of sales of the Pulaski Iron Company, Philadelphia. As its title suggests this pamphlet of 75 or 80 pages is of an historical nature, and it is illustrated with many views of a number of old time blast furnaces which are shown in contrast to modern blast furnaces. Every iron maker will be glad to peruse Mr. Peters' chapters, in one of which he conveys the following particularly impressive facts, especially attractive to those who entertain a high regard for the old fashioned charcoal iron: "In Center county

today are two stone stacks conducted in practically the same manner as were their predecessors of a century and a quarter ago. At Milesburg, on the outskirts of Bellefonte, the Hecla furnace, built in 1864, continues to make cold blast charcoal iron with its blast engine operated by a water wheel. The Curtin furnace, also near Bellefonte, was originally built in 1817 by Roland Curtin, father of the War Governor of the State, and was remodelled in 1848. The only difference in its operation, as contrasted with the olden method, is that its blast is today furnished by a rotary blower driven by a turbine water wheel, instead of by wooden tubs operated by the overshot wheel. This cold blast furnace is now managed by the great grandson of the original builder." The booklet is a very valuable contribution to the literature of iron making.

South Carolina's Contribution to Western Wealth.

By A. B. BRYAN, Clemson College, S. C.

During 1919 South Carolina contributed \$111,000,000 toward the enrolment of the Western States, and to that impressive figure drained the Palmetto Commonwealth of money which could have and clearly should have been kept within her own borders. This vast sum represents the expenditures for the purchase of food and feedstuffs from the West in order to have their lands free to grow cotton which must be sold below cost of production.

Figures prepared by the committee on banking, warehousing and legislation of the American Cotton Association show that the importation of food and feedstuffs into South Carolina from the West was as follows:

Corn.....	\$15,000,000
Mixed feeds.....	13,000,000
Hay.....	12,000,000
Oats.....	10,000,000
Flour.....	20,000,000
Bacon.....	20,000,000
Beef.....	5,000,000
Butter and eggs.....	3,000,000
Canned goods.....	13,000,000

To pay for this staggering bill of \$111,000,000, South Carolina planted 2,877,000 acres of cotton, which yielded an average of 254 pounds of lint per acre, or 1,530,000 bales, the total value of which on December 1, 1920, was placed at \$110,925,000.

It is clear, therefore, that the South Carolina cotton crop in 1920 just about paid the State's bill for food and feed which was bought elsewhere.

And yet the statistics of the Bureau of Crop Estimates, United States Department of Agriculture, show that the picture is not as dark as it used to be. The production figures below show an interesting and encouraging improvement in the agricultural situation in 1920 as compared with 1910:

	1910.	1920.
Corn (bushels).....	31,580,000	42,370,000
Wheat (bushels).....	847,000	1,785,000
Oats (bushels).....	7,000,000	10,413,000
Rye (bushels).....	40,000	294,000
Sweet potatoes (bushels).....	900,000	3,200,000
Hay (tons).....	84,000	450,000

The value of leading food crops in South Carolina in 1920, according to the reports of the Bureau of Crop Estimates, was as follows:

Corn.....	\$49,149,000
Oats.....	10,728,000
Wheat.....	4,448,000
Peanuts.....	3,434,000
Rice.....	296,000
Rye.....	792,000
Hay.....	11,466,000
Irish potatoes.....	9,660,000
Sweet potatoes.....	10,811,000
Sorghum for syrup.....	1,500,000
Sugar cane.....	786,000
Cowpeas.....	2,025,000

This total of \$105,095,000 worth of food and feed produced is almost, if not quite, as large as that of food and feed which had to be bought, and South Carolina farmers are determined that 1921 and the future will see decided increase in the amount produced, and yearly decreases in the amount bought until a not far distant time when the State will live at home. Why, after all, should South Carolina buy at a good profit to the West those things which South Carolina can produce at a cost lower than the West will sell them for? Echo answers, Why?

GOOD ROADS AND STREETS

East Tennessee Counties to Construct Highways Costing Several Million Dollars.

Highway construction costing several million dollars has been authorized by the county courts of several East Tennessee counties, this amount including both State and Federal aid.

A 42-mile section of the Dixie Highway will be built in Campbell county from the Anderson county line near Coal Creek, via LaFollette to Jellico, one-third of the cost of construction having been voted by the county magistrates. The roadway will be graded to a width of 24 feet and surfaced with Kentucky rock asphalt to a width of 16 feet. Engineers have completed surveys from the Anderson county line to LaFollette, blue prints have been accepted and, it is expected, that the contract for construction will be awarded not later than July 2. Surveys from LaFollette to Jellico will be made at once. Claiborne county has contracted for a 5-mile extension of the road through Powells Valley, thus providing a continuous stretch of improved highway to Cumberland Gap. The Campbell County Court also authorized the issue of \$350,000 of bonds to build other roads in the county.

The issue of \$300,000 of bonds to construct a link of the Dixie Highway from the Jefferson county line to the North Carolina State line, a distance of 30 miles, has been voted by the Cocke County Court. Construction will be of concrete and asphalt according to Government specifications. The cost is estimated at \$900,000 which will be equally divided between the government, state and county. The court also approved the issue of \$165,000 of bonds to build and extend other roads in various sections of the county.

The Sevier County Court authorized a \$300,000 bond issue, \$50,000 of which will be expended on a 22-mile highway between Elkmont and Sevierville. A \$125,000 bond issue was voted by the Union County Court, while in Claiborne county a 14-mile road from Powell River to Clinch river in Union county is under construction. Five miles remain to be macadamized on the Arthur-LaFollette Road in Claiborne county and the work is expected to be completed in the near future.

\$15,000,000 State Road Fund for West Virginia Counties.

A state fund of \$15,000,000 for the construction of highways has been distributed among the 55 counties of West Virginia, the apportionment having been made on the basis of Class "A" mileage. The individual amounts range from \$102,960 to \$495,495, the former providing for the building of 32 roads and the latter for 154 roads. The average per county is \$273,373.

To Expend \$500,000 for Highway Construction.

A \$200,000 bond issue for the construction of highways has been authorized by Madison county, Alabama. The fund will be supplemented by \$100,000 from the State and \$200,000 from the Government, making a total of \$500,000 available for expenditure. Of this amount, \$400,000 will be appropriated for the building of trunk line highways and the remaining \$100,000 for lateral roads.

Notes on Good Roads Construction.

The Commissioners Court of Webb county at Laredo, Tex., awarded a contract at \$290,434 to Wear, Thomas & Ratliff of Rogers, Tex., for the construction of the Laredo-

to-San Antonio Highway, including the grading, drainage structures and gravel surfacing. The highway will extend a distance of 35.41 miles from the city limits of Laredo to the LaSalle county line. The contractors also purchased the county serial road bonds to the amount of the contract.

Bids are invited until June 21 by the Jefferson County Board of Revenue, Birmingham, Ala., for highway improvements estimated to cost \$675,000. The plans provide principally for grading and macadamizing a number of roads in various sections of the county.

A special election held in Lake county, Florida, authorized a \$600,000 bond issue for the construction of highways in the eastern section of the county.

A contract amounting to \$267,186.79 has been awarded by the State Highway Board of Missouri to the Land Construction Co. of St. Joseph, Mo., for surfacing 11.93 miles of state highway in Clay county with bituminous macadam.

Eighty-Five Miles of Highways in Tate County.

Jackson, Miss., May 16—[Special.]—Tate county is shortly to have 85 miles of good roads completed, according to information received here. The link between Wyatte, Miss., and the Marshall county line has been accepted for construction by the State Highway Department, and will soon be under way. Another contract will provide for constructing a concrete road from the corporation line of Senatobia to the county agricultural high school. Other developments include improvement of road facilities to meet hard surfaced highways into Memphis, which will mean two interstate highways for Tate county.

Bridge to Be Repaired.

Jackson, Miss., May 16—[Special.]—Madison county has been granted \$10,000 by the State Highway Commission for the purpose of repairing damage done to bridges resulting from recent storms and overflows, according to information received here. The grant was made at a meeting of the highway commission which met in Pascagoula to inspect the site of the Biloxi-Pascagoula concrete highway, to be constructed at a cost of nearly \$700,000 over a distance of nearly 40 miles.

Motor Car Tax for Louisiana Highways.

By a vote of 96 to 23, the Louisiana Constitutional Convention adopted a plan proposed by J. Y. Sanders for the construction of a state highway system in Louisiana by the imposition of licenses on all forms of motor cars and by a 2-cent tax per gallon on gasoline. It is expected that, under the new tax measure, a fund of \$5,000,000 will be available annually for highway purposes.

Oil Trade Increasing at Texas City.

Texas City, Texas, May 18—[Special.]—That this Gulf port has attained a position of importance in the oil trade is shown by the fact that a total of 1,652,540 barrels of petroleum were handled through here as exports and imports during the month of April. A large quantity also was loaded out as bunkers on ships. The total export movement was 1,339,478 barrels. Of this 1,156,560 moved coastwise. One vessel, with 68,306 barrels, went to Biserta, Africa, where there is a bunkering station for Shipping Board vessels plying through the Mediterranean; and one tanker carried 61,974 barrels to Montreal. Nineteen ships were bunkered during the month, they taking a total of 102,738 barrels.

LUMBER AND BUILDING MATERIALS

Lumber Sales Maintain High Level.

New Orleans, La., May 18—[Special.]—The sale of lumber from Southern pine mills is being maintained at the previous high level according to the reports from 140 mills of the Southern Pine Association for the week ended May 16 which indicates receipt of orders for 3,943 cars containing 84,459,060 feet during the week. This gives an average order per mill amounting to 603,279 feet, compared with the average of 568,279 for the preceding week and 694,049 for the week ended April 29. At the end of the week the total of unfilled cars on order was 11,901 feet compared with 10,834 and 11,110 for the weeks ended May 6 and April 29 respectively.

Shipments were 10,164,791 feet above production for the week or 13.89 per cent, while orders were 11,300,051 feet above production or 15.44 per cent. Orders exceeded shipments for the week by 1,135,260 feet or 1.36 per cent. The actual production was 24.09 per cent below normal, and shipments were 13.53 per cent below normal production. Orders were 12.35 per cent below normal production. The increase in "orders on hand" during the week amounted to .45 per cent. The production for the week amounted to 73,159,009 feet.

The report is as follows:—

Orders on hand beginning of week-----	Cars 11,848	Feet 253,781,160
Orders received during the week-----	3,943	84,459,060
Total-----	15,791	338,240,220
Shipments during the week-----	3,899	83,323,800
Orders on hand end of week-----	11,901	254,916,420

Large Lumber Orders and Heavy Shipments.

Mobile, Ala., May 21—[Special.]—One of the largest lumber deals consummated in many months was the sale recently here of 3,200,000 feet of lumber by E. D. Flynn Export Co. to Cuban interests. This makes the second large order placed in the past few months, the United Fruit Co. having purchased 2,000,000 feet from a Pascagoula concern. Despite the slack shipping due largely to the marine strike more than 2,500,000 feet of lumber was shipped from here for foreign consumption last week. One ship carried 1,200,000 feet, and another 1,000,000 feet practically all pine.

The shipments for the new large order will probably be made through Mobile, St. Andrews Bay, Fla., Jacksonville and one or two Gulf ports. The Fruit company shipments will probably go from Pascagoula.

New Orleans Plans for House Building Operations.

New Orleans, La., May 20—[Special.]—Plans are afoot to devise means for building 3,000 new houses to meet the present shortage. Mayor McShane at a recent meeting urged that all interests concerned lay their cards on the table and give and take where necessary. Morgan D. Hite, chairman of the State Housing Commission, predicted higher rents. Nothing can be gained by reductions here and there in labor and materials, he said, and on account of increasing rents and lower wages the situation is constantly growing more serious. Walter Van Hoven expressed the belief that the state must give taxation relief, while Lynn H. Dinkins, president of the Interstate Bank and Trust Co. urged a more exhaustive investigation of the situation. Others urged united co-operation in solving the problems, and practically all interests agree that nothing can be gained by waiting further and that modern, well improved houses should be erected in large numbers immediately.

Tourist Stimulate Residence Construction.

During the first two weeks in May permits issued for new building construction in St. Petersburg, Fla., had a total valuation of \$367,734, or more than the total for the whole of the preceding month. Most of the construction is for residences, and many more are to be started shortly to be ready for the opening of the next tourist season.

Lumber Exports to Mexico Increase.

Tampico, Mexico, May 20—[Special.]—More lumber is being imported from the United States through this port than for many months. One company alone is handling two and a half million feet of lumber monthly, and there are now being loaded in Gulf ports cargoes totaling upwards of 3,000,000 feet. Rib timbers for oil wells are much in demand as well as lumber and timbers for miscellaneous construction of all kinds.

Low Brick Prices in St. Louis.

St. Louis, Mo., May 14—[Special.]—Brick prices have recently been cut here by one company to \$12 for red brick and \$10 for salmon brick. Agreement of employees to accept a big wage reduction has made possible the heavy reduction in brick prices. The plant, which has not been operating for some time, will at once resume operations.

12-Story Office Building for Beaumont.

Beaumont, Texas, May 20—[Special.]—The San Jacinto Life Insurance Co. has plans about complete for the erection of a 12-story building to cost between \$600,000 and \$700,000. Sanguinet, Staats & Gottlieb, architects, of Houston and Fort Worth are completing the plans. Joseph C. Beck, of this city, is associate architect.

Automotive Industry Reports Continued Gain.

A month's sustained and unbroken progress in the onward march of the automotive industry is reflected in the May analysis of conditions just published by the Motor and Accessory Manufacturers Association, New York. More car and truck makers are back on full time basis; money is easier, payments are better; selling is more aggressive, and the betterment as a whole is along sustained, sane and conservative lines.

During the last week in April, groups of the Motor and Accessory Manufacturers Association met to discuss business and the financial conditions generally and the credit entitlements of the makers of motor vehicles. One group met in New York City, the others in Chicago, Detroit and Cleveland. The information brought out in the groups showed little variation. Without exception every significant indication was constructive. Some members, to be sure, insisted that the present improvement in business was only a spurt. This, however, was a minority report, in no way sustained by the preponderant weight of the evidence. The majority opinion seems to be that the improvement has been so gradual and consistent that it presages a continued increase of business along conservative lines.

"Altogether," says the report in recapitulation, "there is a decidedly better feeling among our members. Collections are better and money required from the banks seems somewhat easier. Many plants are resuming operations on a larger scale than heretofore, and the condition of extreme depression has certainly changed for the better."

RAILROADS

Very Heavy Consolidation Engines.

The Western Maryland Railway Co. is having built at the Baldwin Locomotive Works, Philadelphia, 40 locomotives of the Consolidation type which are remarkable for their great weight and hauling power. In this type of locomotive a high percentage of the total weight rests on the driving wheels so that it is well adapted for heavy service at slow speeds, and they will be employed in handling heavy coal traffic.

These locomotives, which are nearly 14,000 pounds heavier for the engine alone, than any other locomotives of this type heretofore constructed by these builders, and they also are also heavier as well as more powerful than any of the Mikado type engines built at their plant. They are designed to traverse curves of 22 degrees, and they will be run on 90-pound rails, the grades being up to 3½ per cent. The total weight of each engine, without the tender is 294,900 pounds and 268,200 pounds of this aggregate rests on the driving wheels, which are 5 feet 1 inch in diameter. The adhesion to track ratio is 3.93, indicating that the weight on the drivers is utilized to the fullest extent possible for hauling. The engines represent the latest development in a series of locomotives which for years have proved successful in handling heavy coal trains. As compared with the heavy Consolidation locomotives built for the Western Maryland Railway in 1910, and using saturated steam, the new engines show an increase in total weight of 31 per cent and in tractive force of 40 per cent.

Some of the principal dimensions of the engines are as follows: Cylinders, 27 by 32 inches; boiler diameter, 7 feet 4 inches; length of firebox, 9 feet 4 inches; steam working pressure, 210 pounds per square inch; total heating surface, 3,498 square feet; superheater, 945 square feet; total weight of engine and tender combined, 565,000 pounds; total length of engine and tender, 80 feet 4¾ inches; height of engine 15 feet 10 inches; greatest width, 11 feet 4 inches. The tender is unusually large, carrying 15,000 gallons of water and 16 tons of coal; the tank has an arrangement of transverse and longitudinal plates to keep the water from surging. The inner walls of the tender are sloped so that the coal will enter the stoker trough by gravity even when there is only a small amount of fuel in the tender.

The cab of the engine is unusually roomy and comfortable and its equipment includes a breather pipe to supply fresh air to the engineman and fireman while going through tunnels, the air supply being taken from the air brake system.

Important Mexican Railroad Plan.

Matamoros, Mexico, May 9—[Special.]—Interesting facts concerning the proposed construction of a railroad between Matamoros and Tampico, about 325 miles, were developed at a conference recently held here, and attended by Ignacio Perez, director of the National Railways of Mexico; C. M. Kittle, vice-president of the Illinois Central Railroad, several officials of the Gulf Coast Lines, and engineers representing these railroads. Santiago Philemon, Jr., was appointed chief engineer of the proposed road and instructed to make a survey.

It is stated that although the new railroad will be an independent property, the National Railways of Mexico and their connecting line, the St. Louis, Brownsville & Mexico Railway, which is a part of the Gulf Coast system, are interested in its construction.

Mr. Philemon says that R. B. Creager of Brownsville, reported slated to be United States Ambassador to Mexico, has interested Eastern men in the financing of the proposed railroad. The concession was granted to Mr. Philemon and associates by the Mexican government. It is estimated that the cost of constructing and equipping the line will be approximately \$18,000,000 gold, of which sum 75 per cent will be furnished by the Americans who are interested in the project, according to Mr. Philemon.

The interest of the Illinois Central in the proposed railroad is said to be due to the fact that it has entered into a traffic arrangement with the National Railways of Mexico and the Gulf Coast Lines for handling Mexican freight.

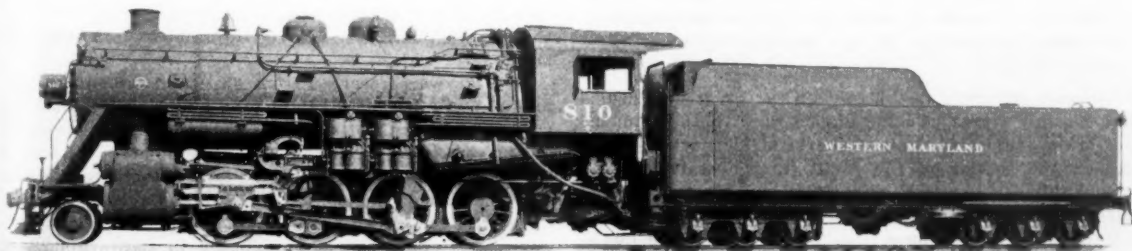
New Equipment.

Louisville & Nashville Railroad Co. has applied to the Interstate Commerce Commission for a Government loan of \$5,000,000 for 15 years, of which \$4,000,000 would be used for the purchase of equipment and \$1,000,000 for additions and betterments.

Railroad Financing.

The Nashville, Chattanooga & St. Louis Railway has been authorized by the Interstate Commerce Commission to issue \$1,000,000 of 5 per cent first consolidated mortgage bonds and to pledge them as collateral for notes.

The Chesapeake & Ohio Railway has asked authority of the Commission to deliver \$8,836,000 of the road's first lien and improvement twenty-year mortgage bonds and to pledge \$6,674,000 of them to secure a Government loan of \$5,338,000. The United States Mortgage & Trust Co. is trustee. The loan has been approved by the Commission. It is estimated that \$7,500,000 will be used to finance additions and betterments, \$1,039,000 for construction of branches, and \$297,404 to retire outstanding bonds through the company's sinking fund.



LATEST DEVELOPMENT IN CONSOLIDATION LOCOMOTIVES FOR COAL TRAFFIC.

PHOSPHATE ROCK INDUSTRY MADE RECORD IN 1920.

Nearly Million More Long Tons Mined and Sold Than During Previous Record Year 1918.

Washington, May 23—[Special.]—The phosphate-rock industry in the United States in 1920, according to figures from all producers compiled early in April by the United States Geological Survey, made a record far surpassing that of any previous year. The quantity of phosphate rock mined and sold was 4,103,982 long tons, or nearly a million tons more than in the record year 1918. The total receipts from sales was \$25,079,572, or more than twice as much as in any other year. The average price per ton for the entire output was \$6.11, as compared with \$5.10 in 1919.

Florida's output more than doubled, the quantity of land pebble phosphate increasing by more than one and one-half million tons. South Carolina produced 27 per cent less than in 1919, but Tennessee increased her output 100,000 tons, or 18 per cent. A notable feature of the year was an increase of 223 per cent in the production in Idaho and Utah.

Commenting on the showing made by the industry last year, the Geological Survey advises the Manufacturers Record as follows:

"Phosphate rock figures reviewed and found unquestionably right. A strike for seven months reduced the output of land pebble in 1919. Last year the fertilizer manufacturers bought heavily as exports increased 700,000 tons. Mining was vigorous until fall. During the last six months mining has been dull because farmers bought fertilizer light."

Phosphate-Rock Mined and Sold in the United States 1919-20.

State	1919		1920	
	Quantity (long tons)	Value.	Quantity (long tons)	Value.
Florida:				
Hard rock	285,467	\$2,452,563	400,249	\$ 4,525,191
Soft rock	14,498	196,318	13,953	190,551
Land pebble	1,360,235	5,149,048	2,955,182	14,748,620
	1,660,200	\$7,797,929	3,369,384	\$19,464,362
South Carolina:				
Land rock	60,823	308,968	44,141	367,209
Tennessee:				
Brown rock	475,475	3,123,565	556,177	4,425,761
Blue rock	58,550	290,951	78,671	518,234
	534,025	3,414,516	634,848	4,943,995
Western States ^b	16,935	69,855	55,609	304,006
	2,271,983	\$11,591,268	4,103,982	\$25,079,572
				\$ 6.11

^a Includes brown rock from Kentucky.

^b 1919: Idaho, Utah, and Wyoming; 1920: Idaho and Utah.

Small Farmers to Benefit by Farm Loan Act.

Memphis, Tenn., May 23—[Special.]—The revival of farm loan business under the Federal Farm Loan Act will be of tremendous importance to the development of the great area of rich bottom lands in the lower Mississippi Valley, said Walter Howell, president of the Federal Land Bank of Louisville, Ky., in an address at the annual convention of the Southern Alluvial Land Association here.

As an instrument for cutting up the great plantations and the big tracts of undeveloped land in the immediate lower Mississippi Valley, the farm loan act also will hasten the coming of the small farm operated by the owner himself, and it will mean a big move in the direction of "safe farming," or the growing of a diversity of crops as well as cotton, in the view of the Louisville banker.

There are approximately 25,000,000 acres in the alluvial or delta portion of the lower Mississippi Valley. One-

third of this area is utilized. The remainder eventually will be utilized, for it is rich soil of the "bottom" type, highly productive and nearly all capable of being put into cultivation. This work will be stimulated by farm loans under the farm loan act, Mr. Howell pointed out.

Federal Land Bank loans are made for land and farm development and are obtained in sums from \$100 to \$10,000. The average loan period is 33 years requiring amortization payments of \$35 semi-annually on each \$1,000 so that the whole loan is wiped out in 33 years. The interest rate is low. Fifty per cent of the appraised value of the land and 20 per cent of the appraised value of the improvements can be borrowed.

At the business session of the annual meeting of the Association, W. H. Dick, of Memphis, was elected president for the ensuing year, succeeding A. C. Lange, of Blytheville, Ark. Mr. Dick is a lumber operator and owner of many thousands of acres of land in Mississippi. Vice-presidents named are Max Sondheimer of the E. Sondheimer Company, owners of much Louisiana land, and W. H. Bonner, of J. H. Bonner & Sons, owners of thousands of acres of land in Arkansas. The directors re-elected F. D. Beneke, secretary; J. M. Pritchard, treasurer, and C. E. Collins, field secretary.

The Southern Alluvial Land Association in the last four years has been to the lower Mississippi Valley much the same as a chamber of commerce is to a city. It has been advertising the delta lands of the lower valley, correcting erroneous impressions concerning the region and otherwise devoting its energies to stimulation of interest and immigration in a region whose agricultural possibilities are declared to be unsurpassed in America.

Growth Shown by Beet Sugar Industry.

Washington, D. C., May 24—[Special.]—A preliminary statement of the general results of the 1919 census of manufactures with reference to the beet sugar industry has been issued by the Bureau of the Census. It consists of a detailed statement of the quantities and values of the various products manufactured, prepared under the direction of Eugene F. Hartley, Chief Statistician for Manufactures.

Reports were received from 85 establishments in the manufacture of beet sugar in 1919 and their products for the year were valued at \$149,155,892. At the census of 1914 there were 60 establishments with products valued at \$62,605,210. The value of products therefore has been increased \$86,550,682 or 138.2 per cent.

In 1919, there were 16 establishments each in Michigan and Utah, 14 in Colorado, 10 in California, 8 in Idaho, 5 in Ohio, 4 each in Nebraska and Wisconsin, and 1 each in Illinois, Indiana, Iowa, Kansas, Minnesota, Montana, Washington and Wyoming.

Commendations, Kicks and Comments

Is One of the Best.

J. H. WHITLEY, Whitakers, N. C.—Find enclosed check \$6.50 for my subscription for another year for the MANUFACTURERS RECORD. I do not see how I can get along without it. It is one of the best papers that I ever read.

Headed Toward Better Times.

J. H. Brown, Westminster, S. C.—I especially appreciate your efforts in behalf of the Southern cotton planters one of which (unfortunately) I am. But the way things are shaping themselves or perhaps it would be better to say are being shaped by the new administration, I feel that we are headed toward better times. This may look like a strong statement from a life-long Democrat, but I verily believe it to be true and I am not the only Southerner that holds this view, so in conclusion permit me to thank you for continuing my subscription after expiration date.

The Right Stand.

Bryce Supply Company, Florence, S. C.—Enclosed you will find check for twenty-dollars (\$20.00) covering charge for your Daily Bulletin.

The writer feels that you have taken absolutely the right stand in regard to the Federal Reserve Banking System, and hopes and trusts that you will keep up your editorials, as he feels that what you have had to say has been a great help in bringing around a lower rate of interest.

We Hope So.

Aubrey Costner, Worth, N. C.—After the five copies of the Manufacturers Record were received, I sent you a check for \$6.50 for the payment or extension of my subscription. I wish to say every Southern man should take your paper even if he did not read it any at all.

Every issue to my mind is worth many times the cost and I consider your manly, intelligent and energetic way of handling the matters you write about is better than I have ever noticed in any other paper. I showed your magazine to a number of people and they all say there are brains behind that paper.

Protective Tariff Needed.

J. A. Jennings, Homer, La.—It is my opinion that if Lansing and Williams had resigned from the Wilson Cabinet when they saw it was no use to try further to bring it to a sane basis, it would have saved this country many billions of dollars in money and untold want and misery here and abroad.

I fully agree with you that it is good at this late day, But how much better it would have been at the proper time. I am with you for a tariff and America. Everything I have is tied up in the graphite business, and is standing still on account of free trade. I am glad to be one of your subscribers, and may your paper grow and what it advocates until the dreamer has no following.

The Spread Between What the Farmer Sells at and What He Buys At.

W. H. Catterall, Chickasha, Okla.—Herewith enclose my check for one more year's subscription to the Record. I thought I would cut it out this year, but I like your writing on account of green hides selling for one cent a pound, and two years ago 50 to 75c. a pound, corn 35c. a bus., cotton 4 to 10c., wheat 90c. per bus. Now shoes \$4 to \$16 a pair, harness \$60.00 to \$120.00 a set, flour and groceries high as ever, labor high, freight rates out of reason. Hogs 7 to 8c. on foot, pork chops and pork ham fresh 30c. per pound, cured ham 35c., bacon 40 to 60c., beef cattle 4½ to 8½c. for the best, boiling beef 20c., roast 25c., steak 20 to 35c. Now where are we going to get on at or get off at? Can you explain?

FOREIGN NEEDS

[The MANUFACTURERS RECORD receives many letters from abroad asking for information about American goods, and others, from men who wish to represent American houses. Without assuming any responsibility for these concerns, we publish a summary of the foreign letters of inquiry from week to week.]

Electric Novelties—Spinning Machinery.

P. Alguersuari Monclus, Calle Furull No. 1, Sabadell, Spain.—I would like to come in touch with manufacturers of electric novelties and supplies of all kinds to be used in hotels and private buildings. I am also interested in machinery for spinning wool and worsted, as well as looms for the manufacture of piece goods (woolens and worsted only) both for men's and women's wear.

Clothing, Etc.; Furniture, Glassware.

LATIN AMERICA TRADING CO., P. O. Box 202, Barranquilla, Colombia. We would like to represent manufacturers or else purchase on our account the following articles: Ready-made street clothes, overcoats and interior clothes for gentlemen, silk neckties, socks, stockings, fine and ordinary shoes, dress and working shoes, gents' furnishings, electrical handiwork, office supplies, toilet articles, ladies' and misses' hats, furniture, glass articles for the table and glass novelties in general.

Glassware, Hosiery, Etc., and Shoes.

A. S. Puccio & Company, 132 Nassau Street, New York, N. Y.—We are about to discontinue this office April 28 and the writer expects to sail for Callao, Peru, on the 30th or during May, to take charge of the selling force of our headquarters at Callao. We are interested in glassware, hosiery, underwear and shoes, and wish to represent manufacturers. As we do not buy merchandise for stock our services are offered as salesmen in Peru, the efforts of this company being entirely confined to that territory.

Moving-Picture Films, Cameras, Etc.

THEATER ROYAL, Chorley Bros., P. O. Box 124, Kampala, Uganda, Africa.—We wish to purchase cinema films outright or to hire same on circuits. We can arrange to hire out same to several picture houses in East Africa and Uganda. Films must be of deep interest and fetching. Good comedies, as the Keystone sort, and Chaplin series, suitable for native houses, knock-about, etc. We also require a first-class camera for taking films of travels and of game. Please state in English prices of same. Special attention must be given to view finding and the taking of tropical insects, etc. Also, if possible, to find a market for these films. We are prepared to exchange any butterfly, moths, bugs and insects with any American house.

Dry Goods, Notions, Hardware, Leather, Etc.

Fernandez-Avello y Cia, Mendoza 5477, R. A., Buenos Aires, Argentina.—We are two industrial partners and have been in the business over ten years as travellers and custom-house brokers. One of us has been dedicating his time exclusively to articles made of fabrics, bonnets, haberdashery or dry goods and notions and orthopedic; and the other to hardware and leather, thus qualifying us to represent such articles. We are interested in representing the following: Articles made of fabrics in general (except cashmeres), articles of orthopedic in general, accessories for corsets, linings and interlining for tailors, silk and cotton ribbons, suspenders and ribbons for women underwear, gloves made of threads and leather skins, knit goods, undershirts, drawers, stockings, sweaters, hardware articles, leather articles.

Construction Estimates Wanted.

Yannopolos-Cassarlis & Co., Stamboul Street 14, Alexandria, Egypt.—We would like to have estimates from manufacturing specialists and others interested as follows: A detailed and exact estimate on a complete establishment of the latest and most highly improved type for refrigerating a warehouse of 100 cubic meters. Specifications: For storage of beer; about 1000 kilograms to be stored daily. Capacity of warehouse 50 bbls. Temperature of product when stored, 25 degrees centigrade. Permanent temperature of warehouse, 4 to 6 degrees above zero. Warehouse to be built according to your directions. Estimates must be accompanied by all the necessary documents, designs, sketches, plans, instructions, etc., so that the interested party may form an exact idea of the offer. Also, a detailed and exact estimate of a complete establishment of the most modern and highly perfected type, for the deodorization and the demargarining and producing daily one to two bbls. of the best quality of salad oil, white, odorless and free from margarine.

Construction Department

EXPLANATORY.

The MANUFACTURERS RECORD seeks to verify and obtain additional information regarding all enterprises reported in its Construction Department, by direct daily correspondence. Further facts of news value are published later from telegraph, mail and representatives' reports. We appreciate having our attention called to errors that may occur.

DAILY BULLETIN.

The Daily Bulletin of the MANUFACTURERS RECORD is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$20.00 per year.

Airplane, Plants, Stations, Etc.

Fla., Pensacola.—Navy Dept., Bureau of Yards and Docks, Washington, D. C., will install deferrization plant at Naval Air Station, consisting of wood aeration tanks, concrete settling basin, concrete filters and clear water reservoir, pump house, valve chamber and coagulant house, steel framing with corrugated siding, together with pumps, piping, wiring, valves, fittings, etc.; bids until June 8; Spec. 4385. (See Machinery Wanted—Deferrization Plant.)

Bridges, Culverts and Viaducts.

Fla., Miami.—Dade County will construct bridge at Musa Isle; \$25,000 to \$30,000; invites bids. Address County Comms.

Fla., Valparaiso.—City, John B. Perrine, Mayor, interested in construction of 660-ft. bridge over head of Sunset Bay; invites bids. (See Machinery Wanted—Bridge Construction.)

Fla., West Palm Beach.—Palm Beach County will complete bridge over Lake Worth from West Palm Beach to Palm Beach; 1,885-ft. long, including 857 lin. ft. embankment, 854 lin. ft. reinforced concrete arch construction with piers and abutments and steel swing bridge 174-ft. long; bids until June 17; R. F. Goodman, County Engr. (See Machinery Wanted—Bridge Construction.)

Ky., Oneida.—Clay County will build bridge across South Fork of Kentucky river; concrete or steel; bids until June 1; Geo. S. Jones, Clk. County Court, Manchester, Ky. (See Machinery Wanted—Bridge Construction.)

Miss., McCallum.—City will complete steel bridge across Leaf river; bids until June 10; Herbert Gillis, City Clk., Hattiesburg, Miss. (See Machinery Wanted—Bridge Construction.)

Mo., Liberty.—State Highway Board, Jefferson City, Mo., let contract to Buis & Olson, St. Joseph, Mo., at \$17,349.35 for 8 bridges in Clay County; Federal Aid Project No. 99; A. C. Singley, Div. Engr., St. Joseph, Mo. (Lately noted inviting bids.)

N. C., Almond.—Swain County Road Dist., Bryson City, N. C., let contract to Luten Bridge Co., York, Pa., at \$35,630.10 for reinforced concrete bridges; D. E. Nichols, Clk. County Comms. (Lately noted inviting bids.)

N. C., Bryson City.—Swain County will build 4 reinforced concrete bridges; bids opened; D. E. Nichols, Clk. County Comms.

N. C., Ravensford.—Swain County Road Dist., Bryson City, N. C., let contract to Luten Bridge Co., York, Pa., at \$35,630.10 for reinforced concrete bridges; D. E. Nichols, Clk. County Comms. (Lately noted inviting bids. (See N. C., Almond.)

Okla., Beaver.—Beaver County, Okla., and Meade County, Kans., will build concrete bridge over Cimarron river, between Forgan and Liberal; \$75,000. Address County Comms.,

Beaver, Okla., and County Comms., Meade, Kans.

S. C., Edgefield.—Edgefield County will build steel bridge across Mill Creek on Martin Town road; including 2 concrete piers, 2 concrete abutments and approaches and three 40-ft. spans; bids until June 1; A. A. Edmunds, Supvr. (See Machinery Wanted—Bridge Construction.)

S. C., Walterboro.—Colleton County will build 2 reinforced concrete bridges; bids until May 27; P. M. Buckner, Chrmn. County Comms. (See Machinery Wanted—Bridge Construction.)

Tex., Banquete.—Nueces County will build bridge 225-ft. long over Agua Dulce Creek consisting of ten 20-ft. clear spans of reinforced concrete slab; 134,640 lbs. reinforcing steel; bids until May 27; O. N. Powell, County Engr., Corpus Christi, Tex. (See Machinery Wanted—Bridge Construction.)

Tex., Corpus Christi.—Nueces County let contract to P. G. Burns, San Bernardo, Tex., at \$13,619.80 for 2 bridges; county will furnish materials; O. N. Powell, County Engr. (Lately noted inviting bids.)

Tex., Corpus Christi.—Nueces County will build 19 bridges and culverts in Precinct No. 4; 112,341 lbs. reinforcing steel; bids until May 27; O. N. Powell, County Engr. (See Machinery Wanted—Bridge Construction.)

Tex., Hallettsville.—Lavaca County will construct steel and concrete bridge over Navidad Creek; \$40,000; J. A. Sommerlatte, County Judge; Capt. A. Schlafli, Archt.

Tex., Houston.—City will build Crockett St. bridge; low bidder Tom Telleppson. Address The Mayor.

Tex., Kerrville.—Kerr County will build bridge on Highway 41 over Goat and Lime Creeks consisting of eight 20-ft. spans and 30-ft. span; W. E. Simpson Co., Engr., 506 Hicks Bldg., San Antonio, Tex.

Tex., Newark.—Tarrant County let contract to Frost Construction Co., at \$10,000 for 65-ft. reinforced concrete bridge over Indian Creek consisting of 2 30-ft. spans; R. V. Glenn, Const. Engr., W. E. Yancy, County Auditor; both Fort Worth, Tex. (Lately noted inviting bids.)

W. Va., Charleston.—Kanawha County will build steel highway bridge at mouth of Paint Creek; bids until June 16; R. N. Moulton, Clk. County Court. (See Machinery Wanted—Bridge Construction.)

W. Va., Spangler.—Randolph County will build concrete deck girder bridge consisting of three 30-ft. spans, 16-ft. roadway; bids until June 7; H. C. Kesling, County Clk., Elkins, W. Va. (See Machinery Wanted—Bridge Construction.)

Canning and Packing Plants.

Fla., Panama City.—W. L. Wilson interested in establishing cannery.

Fla., Palmetto.—A. C. Kugelman will erect 150x50 ft. concrete packing plant; install machinery.

Fla., St. Petersburg.—Milne-O'Berry Packing Co., 1st Ave., will double plant capacity; purchased 20-acre site.

Md., Baltimore.—S. M. Robinson & Co., 907 S. Luzerne St., capital, \$10,000; inceptd. by Herbert M. Robinson, Wm. E. Lambie.

Mo., Springfield.—Forster Mfg. Co. plans construction 1 and 2-story cannery.

Clayworking Plants.

Okla., Ponca City.—Bricks.—D. J. Donahoe, W. K. Moore, interested in establishing brick plant.

Tex., Houston.—Bricks.—Bohemia Brick & Tile Co., A. T. Eddington, increases capital from \$125,000 to \$250,000. (Lately noted inceptd.)

W. Va., Williamson.—Bricks.—Williamson Red Brick Co. is enlarging plant.

Coal Mines and Coke Ovens.

Ala., Birmingham.—Garsey Coal Co. organized with Brewster Dixon, Prest.; J. W. Dickinson, Secy.-Treas.

Ky., Louisville.—Vinson-Kolb Coal Co., increased capital from \$100,000 to \$110,000.

Ky., Prestonsburg.—Stephens Branch Coal Co. (lately noted inceptd., capital \$50,000), organized with S. C. Ferguson, Mgr.; develop coal land; daily output 1,500 tons. (See Machinery Wanted—Boilers; Turbine; Rails; Cars.)

Tenn., Chattanooga.—Trio Coal Co. increased capital from \$25,000 to \$75,000.

Tenn., Knoxville.—Peerless Coal Co., inceptd. by J. Walter Chamberlain, W. H. Allen, H. M. Miller.

Va., Red Ash.—Superior Red Ash Fuel Co., capital \$150,000; inceptd. with D. C. Yates, Prest.

W. Va., Fireco.—Logan-Chilton Coal Co., capital \$200,000, inceptd. by J. W. Maxwell, Jessie Fisher, both Beckley, W. Va.; William McPherson, Fireco.

W. Va., Morgantown.—Dells Run Coal Co., capital \$50,000; inceptd. by David S. Brewer, R. D. Barrickman, both Morgantown; B. H. Brewer, Monaca, Pa.

W. Va., Williamson.—Waugh Coal Co., purchased holdings of Williamson Coal Co. with daily capacity of 500 tons; will develop, build sidings, etc.

W. Va., Williamson.—Williamson-Pond Creek Coal Sales Co., capital \$10,000; inceptd. by L. G. Bray, J. G. Nesbit, Allen E. Klinger.

Concrete & Cement Plants

Tex., Castroville.—Cement.—Gulf Portland Cement Assn., capital \$3,000,000; inceptd. with W. S. Campbell, Prest. and Gen. Mgr., 812 Gibbs Bldg., San Antonio, Tex.; erect plant, install electrical equipment. (Supersedes recent item.)

In writing to the parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Cotton Compresses and Gins.

Ark., Walnut Ridge.—Hoxie.—Walnut Ridge Compress Co. will erect 180-ft. addition to plant.

Miss., Indianola.—Sunflower Compress Co. increases capital from \$30,000 to \$100,000.

Okla., Oklahoma City.—Traders' Compress Co., Fort Worth, Tex., will erect 25,000-bale cotton compress; install machinery, and high density compress; purchased site; total cost \$500,000.

Tex., Clifton.—Clifton Gin Co., capital \$18,000; inceptd. by L. M. Selberg, O. M. Anderson.

Tex., Lockhart.—Planters' Gin Co., increases capital from \$25,000 to \$30,000.

Tex., Robstown.—Robstown-Kasch Cotton Seed Co., capital \$50,000; inceptd. by Wm. Bauer, Jr., C. D. Robertson.

Cottonseed-Oil Mills

Ga., Valdosta.—Empire Cotton Oil Co., will rebuild burned plant.

N. C., Hertford.—Eastern Cotton Oil Co., increased capital from \$500,000 to \$750,000.

Drainage Systems.

Ark., Arkansas City.—Cypress Creek Drainage Dist., Desha and Chicot Counties; construct drainage system; issued \$500,000 bonds.

Fla., Winter Haven.—Wahneeta Drainage Dist. Supvs. will construct drainage system; to reclaim 6,000 acres land; issued \$60,000 bonds.

Ky., Frankfort.—City contemplates constructing drainage canal; plans issuing \$75,000 bonds. Address The Mayor.

Mo., Brimson.—Brimson Drainage Dist. will construct 12 mi. open ditch, drain 13,000 acres land; W. B. Mazen, Engr., 53 Commercial Bldg., St. Joseph, Mo.

Mo., Maryville.—Nodaway County, Barnard-Bolekov Drainage Dist. will construct ditch; invites new bids.

Electric Plants.

Fla., Millville.—City issued \$27,000 bonds to install electric lights and water systems. Address The Mayor.

G., Elberton.—City, J. T. Dennis, Jr., Mayor, voted \$20,000 light bonds; H. S. Jaudon Engineering Co., Engr. (Lately noted to vote.)

Ky., Bowling Green.—Kentucky Public Service Co. will expend \$30,000 to extend lighting and power lines to Woodburn and Auburn, Ky.

La., Gisliland.—H. Houck interested in installing electric light plant.

Mo., Fulton.—City will purchase unit, consisting of engine and generator for electric light plant; cost \$25,000 to \$30,000. Address The Mayor.

Mo., Jasper.—City, J. Hall, Mayor, plans voting on \$40,000 bonds to build electric light plant and water-works; A. C. Moore, Engr., Independence Bldg., Joplin, Mo.

Mo., Versailles.—Versailles Flour Mill, Light & Power Co., organized with Henry Moser, Prest.; acquired Mr. Moser's plant.

N. C., Shelby.—Town, O. M. Suttle, Clk. Board of Alderman, will issue \$50,000 light and water extension bonds.

Okla., Comanche.—City will vote May 24 on \$275,000 lights, water and sewerage bonds. Address The Mayor.

Okla., Duncan.—City, J. F. Ewell, Mgr., voted \$300,000 electric light plant extension bonds. (Lately noted to vote.)

Okla., Sayre.—Town will construct electric distribution and power plant; V. V. Long & Co., Engrs., 1300 Colcord Bldg., Oklahoma City.

S. C., Great Falls.—Southern Power Co. contemplates enlarging power plant; double capacity; expend \$1,000,000.

Tenn., Martin.—City, Geo. P. Hurt, Mayor, will improve water and light plant; construct power house; install 2 A C generators direct connected to non-condensing uniflow, or non-releasing Corliss engines; 2 water tube boilers; heater and feed pumps; switch board; piping; chimney; elevated tank; motor-driven centrifugal pump; re-setting air compressor; street lighting material; transformers, etc.; bids until June 9; Frank L. Wilcox, Consult. Engr., Chemical Bldg., St. Louis, Mo. Lately noted sold \$100,000 bonds. (See Machinery Wanted—Electric Light Plant Equipment.)

Tex., Georgetown.—City, Jno. M. Sharpe, Mayor, R. E. Ward, Mgr., let contract to install 250-H. P. Skinner engine and Westinghouse generator; cost \$20,000; construct \$125,000 transmission system; equipment purchased. (Lately noted.)

Va., Lynchburg.—City plans establishing electric power plant. Address The Mayor.

Va., Norfolk.—Automatic Light & Power Co., capital \$24,000; inceptd. with V. L. Cullen, Prest.; R. P. W. Baylor, Secy.

Fertilizer Plants

Ala., Dothan.—Home Guano Co., M. L. Hanahan, Treas. and Gen. Mgr., will rebuild burned plant; install machinery, including shafting, post hangers, bearings, couplings, collars, pulleys, belts, bevel gears, sheaves, spur gear, Hyatt Roller bearings, No. 111 elevator chain, 7x14 malleable iron buckets, rubber belting. (See Machinery Wanted—Fertilizer Plant Machinery.)

Flour, Feed and Meal Mills.

Mo., Turney.—Turney Elevator Co. let contract to Burrell Engineering Co., 327 S. La Salle St., Chicago, Ill., to construct 40x20-ft. grain elevator warehouse; cost \$16,500; A. C. Brunner, Engr., Kansas City, Mo.

Okla., Enid.—Morrison Brothers, Pond Creek, Okla., will construct 500-bbl. flour mill.

Okla., Kingfisher.—Oklahoma Mill Co., J. A. Ruth, Prest.-Mgr., increased capital from \$135,000 to \$285,000.

S. C., Greenville.—Eagle Roller Mills increased capital from \$10,000 to \$15,000.

Tenn., Clarksville.—Dixie Mills, organized with J. H. Winters, Prest.-Mgr.; Ralph L. Winter, Secy.-Treas.; has building; will install American Marvel machinery; daily output 50 bbls. wheat flour and 400 bu. corn meal; W. R. Brown, Constr. Engr., Adams, Tenn. (Lately noted.)

Tex., Cleburne.—Farmers' Mill & Feed Co., capital \$27,000; inceptd. by Long Walls, S. H. Walraven.

Tex., Sherman.—Fant Milling Co., increases capital from \$75,000 to \$300,000; formerly Gladney Milling Co.

Foundry and Machine Plants.

La., New Orleans.—Iron.—J. P. Sutton will rebuild iron foundry, 1 story, 110x150-ft. building.

N. C., Winston-Salem.—Furnaces.—Southern Iron & Steel Corp., Henry Johnson, Prest., increased capital from \$50,000 to \$125,000; plans later to erect plant; mfrs. furnaces for tobacco barns. (Previously noted organized.)

Okla., Sand Springs.—Foundry, etc.—Tulsa Stone & Foundry Co., capital \$150,000; inceptd. by A. C. Spitznagel, E. M. Yates, both Sand Springs; George Kinnery, Tulsa, Okla.

Tex., Houston.—Oil Well Supplies.—Neal Lucey interested in establishing plant for mfrs. of oil well and machine tools, supplies and equipment of all kind.

Va., Bristol.—Refrigerating Plants.—Southern Refrigerating Co., capital \$400,000; inceptd. by S. R. Jennings, Prest.; J. Polk Wolfe, Secy., Johnson City, Tenn.

Va., Norfolk.—Iron.—Virginia Iron Works Corp.; inceptd. with \$200,000 capital.

Gas and Oil Enterprises.

Ala., Moulton.—Lawrence County Oil & Development Co., organized with W. D. McCarty, Prest.; W. C. Bragg, Secy.-Treas.

Ark., El Dorado.—Bailey-Jones Oil Co., capital \$35,000; inceptd. by J. E. Bailey, W. A. Jones.

Ark., El Dorado.—Hickman-Walden Oil Co., capital \$35,000; inceptd. by R. F. Walden, S. N. Hickman.

Ark., El Dorado.—Stuttgart Oil Co., capital \$50,000; inceptd. by T. M. Rowland, R. C. Hamm.

Ark., El Dorado.—Lee J. Timberlake Oil Co., Trull Bldg., capital \$40,000; inceptd. with Lee J. Timberlake, Prest.; Dan Dewberry, Secy.-Treas.

Ark., El Dorado.—Wilson Oil Co., Box 309, organized with J. W. Wilson, Prest.; install \$20,000 drilling rig; lay 4,500 ft. 6 to 10-in. pipe. (Lately noted inceptd., capital \$50,000.)

Ark., Little Rock.—Refinery.—Rose City Petroleum Corp., E. B. Fowler, Secy.-Treas., 407 Donaghey Bldg., let contract to Edwards & Dore to construct 40x10-ft. brick and cement stills; cost \$30,000; install \$25,000 machinery; daily capacity 1,000 bbls. oil. Lately noted. (See Machinery Wanted—Refinery Equipment.)

Ark., Pine Bluff.—Refinery.—Oneta Refining Co., Henry Miers, Representative, Oneta, Okla., capital \$250,000, plans erecting refinery.

Ark., Pine Bluff.—Pine Bluff Oil & Lease Co., 118 W. 2d St., capital \$10,000; inceptd. with W. T. Lowe, Prest.; A. B. Robinson, Secy.-Treas.

Fla., Miami.—Big Timber Oil & Gas Co., of Kentucky, capital \$100,000; inceptd. by James E. Lee, J. B. Yorborough, Vernon Price-Williams.

Ky., Ashland.—Knox Petroleum Co., capital \$40,000; inceptd. by H. B. Stafford, Ashland; J. B. Leech, Catlettsburg, Ky.

Ky., Paintsville.—Pipe Line.—Berea Pipe Line Co. will erect 30 mi. 2-in. oil line; construct loading rack, tankage and pumping stations; construction by owners; install \$100,000 machinery; daily capacity, 1,000 bbls.; M. B. Wescott, Supvr. Engr. (Lately noted inceptd., capital \$50,000.)

Ky., Paintsville.—Weir-Beara Oil & Gas Co., capital \$100,000; inceptd. by Chas. O. Ramsey, Coeburn, Va.; Lee Kilgore, Wise, Va.

Okla., Bartlesville.—Lima Oil & Gas Co. increases capital from \$200,000 to \$300,000.

Okla., Chickasha.—Wichita Valley Oil & Gas Co., inceptd. by T. F. Thweatt, Chickasha; W. J. Knepp, Kansas City, Mo.

Okla., Grandfield.—Old Dominion Pipe Line, L. L. Massey, Mgr., Lexington, Ky., will install additional pumping station in Red River, with daily pumping capacity of 7,000 bbls. of crude.

Okla., Henryetta.—Moka Petroleum Co., capital \$100,000; inceptd. by M. O. Land, St. Joe, Mo.; J. B. Hewitt, Henryetta.

Okla., Okmulgee.—Acta Oil Co., capital \$150,000; inceptd. by G. A. Gifford, W. A. Munson.

Okla., Tulsa.—McRose Oil Corp., capital \$50,000; inceptd. by R. E. Rosier, Tulsa; F. T. Miller, Oklahoma City.

In writing to the parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Okl., Tulsa.—Reserve Petroleum Co., capital \$100,000; inceptd. by J. R. Hill, Tulsa; J. L. Kimmell, Muskogee, Okla.

Tex., Breckenridge.—Absorption Gas Products Co. is erecting frame and galvanized iron boiler house and pump house; initial plant of chain of gasoline absorption plants; daily capacity 7,000,000 cu. ft.; C. C. McCandless, Engr. (Lately noted.)

Tex., Bryan.—Two Rivers Oil Co., capital \$250,000; inceptd. by J. N. Goodwin, C. S. Gainer.

Tex., Dallas.—Refining—Gulfref Refining Co., capital \$100,000; inceptd. by Russell Reynolds, Wm. White.

Tex., Dallas.—Senoj Petroleum Corp., capital \$250,000; inceptd. by J. A. Jones, Jr., J. H. Beall.

Va., Roanoke.—Hollybrook Oil & Gas Corp., capital \$250,000; inceptd. with T. M. Finlay, Prest.; A. W. Suiter, Secy.

Ice and Cold-Storage Plants.

Fla., New Smyrna.—J. N. McGaughey, Longwood, Fla., will establish ice plant; purchased site.

Tex., Austin.—Consumers Ice Co., capital \$63,000; inceptd. with C. W. Barker, Prest.; C. E. Jones, V.-P.; Z. P. Jordan, Secy.-Treas.; contemplate installing 100-ton plant; has option on new site.

Iron and Steel Plants

Ala., Gadsden.—Gulf States Steel Co., Brown-Marx Bldg., Birmingham, Ala., resumed operation of 4 open hearth furnaces.

Md., Baltimore.—Iron and Steel Rods and Reinforcing Bars.—American Steel Rolling Co., Reuben S. Baldwin, Gen. Mgr., 1203 N. Charles St., contemplates erecting plant at Monument & Eighth Sts.; mfr. iron and steel rods and reinforced bars; annual capacity 15,000 tons; operated by electricity and oil with small open-hearth furnace; utilize high grade scrap materials such as arch bars, truss rods, draw bar yokes, center pins and heavy tie bars; Supt. in charge will be W. Y. Schall, formerly of Slatington Steel & Iron Co., Perth Amboy, N. J.; Advisory Engrs., Geo. Hoeffle and James A. Murray.

Land Developments.

Ark., Furth.—E. P. Ladd Land Co., capital \$40,000; inceptd. by E. P. Ladd, A. N. McAnich.

Fla., Deerfield.—Butler Brothers Farms Co., organized with J. D. Butler, Prest.; A. W. Butler, Secy.-Treas.; will develop 640 acres for citrus and other tropical fruits and vegetables. (Lately noted inceptd., capital \$100,000.)

Fla., Tampa.—Florida West Coast Studios, Inc., will develop 400-acre site for movie city; F. H. Kennard, Landscape Archt., 220 Devonshire, Boston, Mass.

N. C., West Asheville.—T. J. Horney purchased 100-acre Rumbough property; improve; construct water lines and sewer pipes; concrete paving and sidewalks, etc.; R. W. Parker, Engr. and Landscape Gardner; initial cost \$100,000.

Okl., Ada.—City voted \$10,000 Glenwood Park improvement bonds. Address The Mayor.

Va., Lynchburg.—Laurel Park Land Corp., capital \$50,000; inceptd. with R. C. Blackford, Prest.; J. Easley Edmunds, Jr., Secy.-Treas.

W. Va., Huntington.—Manel Land Co., capital \$25,000; inceptd. by Geo. I. Neal, J. B. Stevenson.

W. Va., Mannington.—View Point Cemetery Co., capital \$25,000; inceptd. by J. Wesley Phillips, Mannington; Frank M. Hathaway, Broomfield, W. Va.

Lumber Manufacturing.

Ala., Tuscaloosa.—Kaul Lumber Co., B. P. Head, Secy., Birmingham, Ala., having surveys made to construct 13 mi. standard gauge railroad into timber tract; bids latter part of May. (Lately noted.)

Ark., Hot Springs.—Missouri Lumber Co., capital \$75,000; inceptd. by W. O. and B. L. Creason, W. O. Green.

Tenn., Lawrenceburg.—Tennessee Lumber Co., capital \$25,000; inceptd. by F. J. Hollis, Chas. L. Williams, W. E. Kelly.

Tex., LaGrange.—Farmers Lumber Co. increased capital from \$16,000 to \$32,000.

W. Va., Huntington.—Hollandsworth Planing Mill Co., capital \$50,000; inceptd. by G. D. Miller, Blair B. Wilson, E. L. Hollandsworth.

W. Va., Morgantown.—Valley Lumber Co., capital \$250,000; inceptd. by A. W. Hawley, B. E. Cress, P. R. Watson; establish lumber mills.

Metal-Working Plants.

Ala., Birmingham.—Carburetors.—Robinson Carburetor Corp., J. T. Robinson, Prest., 314 Title Guarantee Bldg., let contract to F. E. Russell to construct 40x90-ft. mill construction building; \$6,000; J. D. Truss, Const. Engr. (Supersedes recent item.)

Fla., Jacksonville.—Locks.—Tilt-A-Lock Co., capital \$300,000; inceptd. with Edgar H. Rogers, Prest.; R. O. Birchy, V.-P.; A. D. Richardson, Secy.; R. E. Wheeler, Treas.; mfr. locks, etc. for motor vehicles.

Tex., Bryan.—Cotton Poisoning Machines.—Company organized with H. O. Boatwright, Treas.; P. E. Mangum, Sales Mgr., capital \$100,000; mfr. machine to destroy cotton pests, greenbugs, etc.; J. M. Saladin, inventor.

Tex., Waco.—Rat Trap.—Wonder Trap Co., W. F. Sonneman, Prest., will erect plant costing between \$12,000 and \$15,000; has 100x165-ft. site; increased capital to \$100,000.

Mining.

Ark., Hatten.—Manganese.—Cora C. Mining Co., J. D. Budd, Prest.-Mgr., Mena, Ark., have 600 acres under development, will install mchy. later; leasing portion of acreage to developing company. (Lately noted.)

Ark., Hot Springs.—Silver.—Silver King Mining Co. (previously noted inceptd., capital \$50,000), organized with J. William Kelly, Prest.; C. F. Newberry, V.-P.; J. Ellsworth Coombs, Secy.; Stanley Lee, Treas.; has 1,200 acres under development, holds lease on other mining property; has mchy.

Ky., Owensboro.—Sand and Gravel.—River Sand & Gravel Co., increased capital from \$10,000 to \$30,000.

Mo., Seligman.—Gold and Silver.—Silver Lake Mining Co., T. R. Gillian will develop gold and silver mines.

Tenn., Knoxville.—Marble.—Holston Quarry Co., increased capital from \$10,000 to \$200,000.

Miscellaneous Construction.

Ala., Demopolis.—Terminals.—City contemplates constructing \$50,000 river terminal. Address The Mayor.

D. C., Washington.—Wharf.—Dist. Comms., 427 Dist. Bldg., let contract to Dorsey & Miller Co., 914 Washington Loan & Trust Bldg., to reconstruct wharf No. 6.

Fla., Valparaiso.—Wharf, etc.—John B. Perrine, Mayor, interested in erection of 200x500-ft. wharf and warehouse on Sunset Bay; invites bids. (See Machinery Wanted—Wharf, etc.)

La., New Orleans.—Wharf.—State Dock

Board, W. O. Hudson, Prest., 200 New Court Bldg., will erect 600 ft. wharf costing \$400,000.

La., New Orleans.—Dredging, etc.—U. S. Dept. Engrs., J. Cyrille Dupont will dredge 1½ mi. connecting Bayou Black and Bayou Terrebonne, link of Intercoastal Canal from Houston to New Orleans.

Md., Baltimore.—Lake.—City will construct lake in municipal park; will vote on \$20,000 bonds. Address The Mayor.

Mo., St. Joseph.—Smokestack.—Morris & Co., H. C. Blake, Mgr. Construction Dept., has started excavation of heavy reinforced concrete base to support new concrete smokestack.

Okl., Oklahoma City.—Natorium-Cascade Amusement Co., let contract to Stewart Construction Co., Boatman Bank Bldg., St. Louis, Mo., to construct 2 story 100x140-ft. natorium, brick, tile and steel construction.

S. C., Charleston.—Terminals.—City, John P. Grace, Mayor, interested in acquiring water front property, equipping with modern appliances, cranes, etc.

Tex., Clarksville.—Levee.—City will construct levee system, issue \$80,000 bonds. Address Prentice Wilson.

Va., Cape Henry, Fort Story.—Retaining Wall, etc.—U. S. Engr. Office, Custom House, Norfolk, Va., construct 4 gun platforms, 16 buildings, reinforced concrete tunnel and retaining walls, 18,500 ft. railroad track; bids until June 13. (See Machinery Wanted—Retaining Wall, etc.)

Miscellaneous Enterprises.

Ala., Stockton.—Potato Curing.—Ben McMillen will erect potato curing house.

D. C., Washington.—Printing.—Art and Archaeology Press, capital \$50,000; inceptd. by Robert M. Thompson, J. Townsend Russell, Ellen M. Warder.

Fla., Miami.—Laundry.—Atlantic Laundry Co., capital \$100,000; inceptd. with R. B. Leonard, Prest.-Treas.; Ernest Behinger, Secy.; will erect \$25,000 plant; install electrically driven mchy. costing about \$50,000.

Fla., St. Petersburg.—Publishing.—Tourist News Publishing Co., J. Harold Sommers, Prest., let contract to Cherboneaux & Son to construct 30x100-ft. brick plant; install \$45,000 mchy., all purchased. (Lately noted to remodel building.)

Fla., Valparaiso.—Ferry Line.—John B. Perrine, Mayor, interested in 1,200 ft. ferry across Valparaiso Bay; invites bids. (See Machinery Wanted—Ferry.)

Ky., Lexington.—Carpet Cleaning.—J. W. Kelly & Sons Co., capital \$20,000; inceptd. by J. W. Kelly, Sr., J. W. Kelly, Jr.

Ky., Louisville.—Machinery.—C. J. Kerbel Co., capital \$15,000; inceptd. by C. J. Kerbel, C. F. Kerbel, Roy Herhater.

Ky., Louisville.—Printing.—Standard Printing Co., D. B. Ross, Prest., 218 First St., will erect 4-story and basement, brick building; Loomis & Hartman, Archts., Todd Bldg.

Md., Baltimore.—Lithographing.—Art Photo Engraving Co., 109 S. Charles St., capital \$10,000; inceptd. by Preston S. Wicks, Wm. O'Connor, John C. Stirling.

Md., Baltimore.—Laundry.—United Laundry, 330 W. Biddle St., will erect 1 story 30x144 ft. building, costing \$4,000.

Miss., Natchez.—Laundry.—Excelsior Steam Laundry Co., increased capital to \$20,000.

Miss., Pelahatchie.—Potato Storage.—Apollonia Lumber Co. interested in establishing potato storage house; J. Ed. Ruff, Dist. Agricultural Agt.

Mo., Caruthersville.—Potato Curing.—Pemiscott Sweet Potato Assn. organized with \$100-

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000 capital, will erect plant for sweet potato curing. (Supersedes recent item.)

Mo., St. Louis.—Incinerator.—City will construct garbage incinerator, 1 story, 68x130-ft. plant of brick, stone and concrete construction; \$175,000; A. Hooke, City Engr. (Lately noted contemplated.)

Okla., Ardmore.—Publishing.—Journal Publishing Co., capital \$25,000; inceptd. by J. A. Lloyd, Miami, Okla. and others.

Okla., Lawton.—Hardware.—Gilkey-Jarbee Hardware Co., capital \$50,000; inceptd. by A. S. Gilkey, Lawton; W. H. and W. D. Gilkey, both Chickasha, Okla.

Tex., Dallas.—Construction.—Keen & Crofford Co., capital \$50,000; inceptd. by George Keen, George L. Crofford, L. M. Birdwell.

Tex., El Paso.—Construction.—Anderson Construction Co., capital \$20,000; inceptd. by A. H. Anderson, J. G. Barada, G. A. Roundis.

Tex., Houston.—Incinerators.—City will install 2 incinerator plants. Address The Mayor.

Va., Hampton.—Electrical.—Engineering Service Corp., capital \$15,000; inceptd. with Vernon D. Whelton, Prest.; John S. McFall, Secy.

Va., Potomac.—Transportation.—Air Line Cargo Express, capital \$100,000; J. H. Bean, Prest.; L. H. Johnson, Secy.

W. Va., Charleston.—Disposal Plant.—Charleston Hygienic Disposal Co., capital \$100,000; inceptd. by S. A. Moore, A. J. Peck, both Charleston; Frank B. Reed, Chicago, Ill.

Miscellaneous Factories.

Ark., Texarkana.—Pulp.—H. K. Tutty, New Orleans, La., interested in organizing company to establish pulp mill for mfg. wood pulp to be made into paper; approximate cost \$16,000.

D. C., Washington.—Dentrifice.—Dentrifice Co. of America, capital \$50,000; inceptd. by Charles E. Channing, Geo. R. Ellis, Frederick L. Yandell.

Fla., Fernandina.—Bakery.—Louis Goldstein and L. A. Klarer, plan establishing bakery.

Fla., Jacksonville.—Drugs, etc.—Watson-Hall Mfg. Co., 803 Lackawanna Ave., capital \$100,000, organized with K. D. C. Watson, Prest.-Mgr.; Elwood G. Ladd, Secy.; Howard G. Hall, Treas.; plans erection 100x30 ft. fireproof building; install bottling and mixing machines, office equipment, etc. (See Machinery Wanted—Agitators; Mixing Machines; Office Equipment; Laboratory Equipment; Tanks.)

Ga., Atlanta.—Rubber Supplies.—J. M. Tull Rubber & Supply Co., J. M. Tull, Prest.-Mgr. 84 N. Pryor St., let contract to A. K. Adams & Co., 927 Grant Bldg., to construct 3-story and basement, reinforced concrete building; install electric elevator, steam heating plant, etc.; construct sidewalk elevator and chute.

Ga., Dublin.—Creamery.—N. G. Bartlett, Secy. Chamber of Commerce, interested in establishing creamery.

Md., Cumberland.—Yeast.—Klosterman Yeast Co., organized with Harry B. Klosterman, Prest.-Mgr.; Ralph Smeltz, Secy.; Clarence Lippel, Treas.; will mfr. yeast. (Lately noted inceptd., capital \$50,000.)

Md., Hagerstown.—Chemicals.—Central Chemical Co., F. M. Thomas, Prest., will rebuild mixing plant, burned at loss of \$40,000. (Lately noted.)

Mo., Springfield.—Mattresses.—Ozark Mattress & Mfg. Co., L. A. and J. D. Wrightsman, Props., 818 Robberson Ave., will erect 70x30 ft. plant addition; install machinery for felt- ing; filling machine and 2 garnett machines; daily output 40 felt mattresses; bids until July 1. (See Machinery Wanted—Mattress Plant Machinery.)

Mo., St. Louis.—Yeast.—Fleischman Yeast Co., H. K. Stephens, Mgr., 1535 Market St.,

will erect 3-story, 170x75-ft. brick and steel factory building; C. A. Jackson, Archt., 701 Washington St., New York.

N. C., Elizabeth City.—Ice Cream.—F. A. Wineke will establish plant to mfr. ice cream; purchased \$25,000 machinery, including 10-ton ice machine; will install; S. W. Wineke, Mgr.

N. C., Salisbury.—Rubber.—Paul Rubber Co., 310 Wallace Bldg., capital \$150,000; inceptd. with M. W. McConnell, Prest.; will erect factory building; 25,000 sq. ft. (See Machinery Wanted—Building Material; Power Equipment.)

S. C., Columbia.—Creamery.—Dunnwood Creamery Co.; inceptd. by R. A. Dunn, Columbia; J. K. Mayfield, Denmark, S. C.

S. C., Marion.—Creamery.—J. W. Blackwell, Secy. Chamber of Commerce, interested in organizing company to establish creamery.

Tenn., Nolensville.—Creamery.—Nolensville Co-Operative Creamery Assn., organized with D. R. Gooch, Prest.; W. S. Greer, Secy., Treas. and Mgr.; will erect 60x40 ft. frame factory building; install boiler, vats, churns, etc., daily output 2,000 lbs. butter; bids open. (See Machinery Wanted—Creamery Equipment.)

Tex., Dallas.—Ice Cream.—Sun-Beam Ice Cream Co., 613 Kentucky St., organized with A. Marshall, Prest.-Mgr.; J. H. Marshall, Secy.-Treas.; has \$16,500 fireproof factory building; install machinery to mfr. ice cream; daily output 4,000 gals.; R. C. Marshall, Archt.-Engr. (Lately noted inceptd., capital \$100,000.)

Tex., Fort Worth.—Hog Serum, etc.—Globe Laboratories, organized with Jno. Kennedy, Prest.; J. H. Huff, Secy.-Treas.; formerly Purity Serum Co., of Texas.

Tex., Houston.—Paints.—Bradford-Brown Paint Co., increases capital from \$30,000 to \$40,000.

Tex., Waco.—Teas and Coffee.—Waco Tea & Coffee Co., capital \$10,000; inceptd. by C. L. Permenter, Louis Lansman.

Va., Danville.—Creamery.—Louis J. Feldman and Jas. Sauerback, Newport, Ky., purchased plant of Danville Creamery; will improve.

Va., Roanoke.—Bakery.—Electric Maid Bake Shop, capital \$50,000; inceptd. with Stanley W. Welch, Prest.; E. R. Porter, Secy.

W. Va., Charleston.—Extracts.—Charleston Extract Co., capital \$200,000; inceptd. by E. B. Brown, O. P. Fitzgerald.

Motor Cars, Garages, Tires, Etc.

D. C., Washington.—Garage.—Henry Levy, 29th & M Sts., let contract to Murphy & Knott, 3428 P St., for 1 story and basement, 36x88-ft. garage; Geo. T. Santmyer, Archt.

Ga., Athens.—Automobile Supplies.—Franklin's Automobile Supply Station, capital \$5,000; inceptd. by John L. Franklin, H. C. Stewart.

Ky., Louisville.—Tires.—Tire Service & Vulcanizing Co., will increase capital from \$3,000 to \$20,000.

Ky., Louisville.—Automobile Accessories.—Hunter-Kiefer Co., capital \$10,000; inceptd. by W. R. Hunter, C. B. Kiefer, Wm. Steimle.

Md., Baltimore.—Garage.—Wm. C. Hipple, care Crystal Ice & Transfer Co., North Ave. and Chester Sts., let contract to Mason & Fox, Law Bldg., for 2 story, 80x80-ft. addition. (Previously noted.)

Miss., Jackson.—Automobiles.—Capital Automobile Sales Co., increases capital from \$15,000 to \$100,000.

Mo., St. Louis.—Garage.—W. L. Heckmann & Co. will erect garage; invites bids; capacity 150 automobiles.

Mo., St. Louis.—Garage.—Davis Motor Car Co., A. F. Davis, 1900 Washington St., will erect garage and machine shop; 1 story; Nolte & Nauman, Archts., Fullerton Bldg.

N. C., Charlotte.—Garage.—J. M. Clark, Inc., will occupy \$24,000 garage to be erected by R. C. Wilson.

N. C., Durham.—Garage.—Johnson Co. will erect garage; 3 story; Milburn & Heister Co., Archt., 1st National Bank Bldg., Durham.

Okla., Ada.—Automobiles.—Ada Cadillac Co., capital \$10,000; inceptd. by Stanley Thomas, J. H. Gordon, B. L. Gordon.

Tex., Dallas.—Automobiles.—Trinity Motor Co. will erect service-station; 56x210 ft.

Va., Clifton Forge.—Filling Station.—Standard Gas & Oil Co., capital \$50,000; organized with O. B. Harvey, Prest.; Milton B. Whiting, Secy.; F. H. Wheeler.

Va., Richmond.—Automobile Supplies.—United Automobile & Supply Co., capital \$50,000; inceptd.

W. Va., Clarksburg.—Repair Shop.—Motor Inn Co., C. S. Warne, Prest., will erect repair shop addition; \$25,000.

W. Va., Northfork.—Tires.—Virginia McWade Tire Co., capital \$50,000; inceptd. by O. R. Parker, Northfork; H. R. Connell, R. A. Ruff; both Elkhorn, W. Va.

Railway Shops, Terminals, Etc.

Mo., Trenton.—Chicago, Rock Island & Pacific Ry. plans to expend \$50,000 for rebuilding shops destroyed by fire.

Road and Street Construction

Ala., Ashland.—Clay County will construct state highway; issued \$80,000 warrants. Address County Court.

Ala., Birmingham.—City will improve 19th St., 8th Ave., 15th and other streets; \$64,770; H. S. Ryall, City Clk.

Ala., Birmingham.—Jefferson County will construct 3 mi. Wylam-Edgewater road, Project No. 6; 2 mi. Ensley-Mulga and Docena road, Project No. 7; concrete base with bituminous top; 3 mi. Rosedale-Edgewood road, Project No. 32; 2 mi. South highway road, Project No. 34; 5 mi. West highway, Project No. 35; bituminous surface; grade 4 mi. Flat Creek-Praco road, Project No. 26; 6 mi. Bradford-Trafford road, Project No. 27; surface 9 mi. Warrior-Robbins road, Project No. 9; 5 mi. Trussville road, Project No. 14; 5 mi. White Gibson road; Project No. 31; 4 mi. Taylor's Ferry road; bids until June 21; C. J. Rogers, County Highway Engr. (See Machinery Wanted—Road Construction.)

Ala., Huntsville.—Madison County will sell \$200,000 bonds for road construction; Chas. H. Pulley, Prest. Board of Revenue.

Ala., Ozark.—Dale County will construct roads; voted \$100,000 bonds; F. L. Mullins, County Engr. (Lately noted to vote.)

Ala., Tusculumbia.—Colbert County will improve roads; vote June 14 on \$250,000 bonds. Address County Commrs. (Lately noted.)

D. C., Washington.—Dist. Commrs. will construct 30,000 sq. yds. cement sidewalks; bids until June 6; Charles W. Kutz, Commr. (See Machinery Wanted—Paving.)

Fla., Jacksonville.—City will construct 12,000 lin. ft. combination curb and gutter; bids until May 31; H. C. Sistrunk, City Clk. (See Machinery Wanted—Paving.)

Fla., Palatka.—City will construct 10,000 sq. yds. brick paving; 7,000 lin. ft. concrete curb; bids until June 7; Chas. S. Burt, City Clk.; John H. Randolph, City Engr. (See Machinery Wanted—Paving.)

Fla., Tavares.—Lake County will improve roads; voted \$600,000 bonds. Address County Commrs.

Fla., Valparaiso.—City, John B. Perrine, Mayor, interested in construction of 100 mi. cement sidewalks and 60 mi. hard-surfaced

In writing to the parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

streets; invites bids. (See Machinery Wanted—Paving.)

Ga., Camilla.—City will improve streets; vote July 26 on \$40,000 bonds. Address The Mayor.

Ga., Elberton.—City will improve streets; voted \$30,000 bonds; H. S. Jaudon Engineering Co., Engr., Elberton, Ga.

Ga., Toccoa.—City will pave streets, enlarge waterworks, etc.; voted \$90,000 bonds. Address The Mayor.

La., Oak Grove.—West Carroll Parish will construct highway from Arkansas line to Michener; \$300,000. Address Parish Police Jury.

La., St. Martinville.—City will construct gravel streets; issued \$20,000 bonds; L. J. Duchamp, Mayor.

La., St. Martinville.—St. Martin Parish let contract to J. B. McCrary Co. to manage construction of 100-mi. gravel highways; \$300,000 available; B. E. Reed, Resident Engr. Lately noted. (See Machinery Wanted—Creosoted Wood; Cement.)

Md., Baltimore.—City will pave portions of Cambridge, Van Lill, Gwynne, Wagner, Church, Perry, Wayne and other streets. Address Board of Awards.

Md., Baltimore.—Board of Awards let contract to American Paving & Contracting Co., Montebello, at \$189,702.50, for paving Charles St., between Lombard and Saratoga Sts., in addition to 4 other streets. (Lately noted inviting bids.)

Md., Frederick.—State Roads Comsn., Baltimore, Md., let contract to M. J. Grove Lime Co., Frederick, at \$78,590.30, for 2 mi. concrete road toward Myersville. (Lately noted inviting bids.)

Md., Frederick.—State Roads Comsn., 601 Garrett Bldg., Baltimore, Md., let contract to Frank Carrozza, Continental Bldg., Baltimore, Md., for 4 mi. concrete shoulders on State road along Frederick Pike to New Market; Frederick County, Contract F-7C. (Lately noted inviting bids.)

Md., Frederick.—City will improve streets. Address Mayor Schley.

Md., Rockville.—Montgomery County will construct section of highway along old Georgetown road; 11,600 ft.; bids until May 31; Berry E. Clark, Clk. County Commrs. (See Machinery Wanted—Road Construction.)

Miss., Hattiesburg.—City will pave Adeline St.; vitrified brick on sand-cement foundation; 7,540 sq. yds. paving; 4,165 lin. ft. curbing; bids until June 2; W. E. Estes, Commr.-Clk. (See Machinery Wanted—Paving.)

Miss., Macon.—Noxubee County will grade Shuqualan-Gholson road; 5459 cu. yds.; bids until June 6; Jasper Lipscomb, Highway Commr. (See Machinery Wanted—Road Construction.)

Mo., Liberty.—State Highway Board, Jefferson City, Mo., let road contracts as follows: Land Construction Co., St. Joseph, Mo., at \$267,186.70 for 11.93 mi. State road from Nashua; bituminous macadam; Federal Aid Project 6B; Buis & Olson, St. Joseph, Mo., at \$41,942.89 for 10.6 mi. State road from Liberty southwestward; Federal Aid Project 99; both Clark County; A. C. Singley, Div. Engr., St. Joseph, Mo. (Lately noted inviting bids.)

N. C., Aurora.—Town will sell \$25,000 bonds for street improvements; Paul T. Sparrow, Clk.

N. C., Danbury.—Stokes County let contract to Solomon & Hill, at \$23,639 for 10 mi. sand-clay road in Yaddin township; D. J. Hooker, Chrmn. Highway Comsn., Tobaccoville, N. C.; J. D. Spinks, Engr., Winston-Salem, N. C. (Lately noted inviting bids.)

N. C., Franklin.—State Highway Comsn., Raleigh, N. C., let contract to J. T. Plott, Greensboro, N. C., at \$61,000 for gravel road in Macon County; Frank Page, Chrmn., Raleigh. (Lately noted inviting bids.)

N. C., Marion.—State Highway Comsn., Raleigh, N. C., let contract to Bolton Construction Co., Marion, N. C., at \$52,000 for 2½ mi. hard-surface road from C. C. & O. depot to Marion; Frank Page, Chrmn., Raleigh. (Lately noted inviting bids.)

N. C., Morganton.—Town will sell \$25,000 bonds for street improvements; C. R. Claywell, Treas.

N. C., Rutherfordton.—State Highway Comsn., Raleigh, N. C., let contract to Geer & Wilson, at \$78,000 for grading and graveling road from Rutherfordton to Henderson county line; Frank Page, Chrmn., Raleigh. (Lately noted inviting bids.)

N. C., Troy.—Montgomery County will sell \$200,000 bonds for road construction; W. L. Wright, Clk. County Commrs.

N. C., Wentworth.—Rockingham County sold \$300,000 bonds for road construction. Address County Commrs.

N. C., West Asheville.—City will improve streets; sell \$90,000 bonds. Address Mayor Roberts.

N. C., West Asheville.—T. J. Horney will construct concrete paving, sidewalks, etc., in Rumbough property; R. W. Parker, Engr.

Okla., Ada.—City will improve Townsend Ave.; Ada rock asphalt; 9,000 sq. yds.; 7,000 lin. ft. curb, gutter and header; will receive bids; W. B. Jones, City Clk.; Benham & Mullergreen, Const. Engrs., Firestone Bldg., Kansas City, Mo.

Okla., Marietta.—City will pave W. Second, W. Third and W. Fourth Aves.; 22,360 sq. yds.; 16,400 lin. ft. gutter; invites new bids; rejected previous bids; Henry Exall Elrod Co., Const. Engr., Dallas, Tex.

S. C., Columbia.—Richland County sold \$2,000,000 bonds for hard-surfaced highways, 16-ft. wide. Address Permanent Good Roads Comsn. (Lately noted.)

S. C., Florence.—City will pave streets; plans voting on \$350,000 bonds. Address Mayor Barringer.

S. C., Greenville.—Greenville County will construct 1 mi. hard-surface road on National highway; asphaltic concrete; \$40,000. Address County Commrs.

S. C., St. Matthews.—Town will sell \$13,000 bonds for street improvements; Robt. W. Pauling, Clk. and Treas.

Tenn., Camden.—Dept. Highways, State of Tennessee, Nashville, Tenn., will construct 7.20 mi. State Highway No. 3 between Tennessee river and Camden; Benton County; Federal Aid Project No. 9; bids until June 3; W. P. Moore, Ch. Engr., Nashville. (See Machinery Wanted—Road Construction.)

Tenn., Centerville.—Hickman County will construct roads; \$240,000 available. Address County Commrs.

Tenn., Charlotte.—Dept. Highways, State of Tennessee, Nashville, Tenn., will construct 9.94 mi. State Highway No. 3 between Cheatham county line and Burns, Dickson County; Federal Aid Project No. 46; bids until June 3; W. P. Moore, Ch. Engr., Nashville. (See Machinery Wanted—Road Construction.)

Tenn., Dyersburg.—Dept. Highways, State of Tennessee, Nashville, Tenn., will construct 8.28 mi. State Highway No. 12 between Dyersburg and Newbern, Dyer County; Federal Aid Project No. 52; bids until June 3; W. P. Moore, Ch. Engr., Nashville, Tenn. (See Machinery Wanted—Road Construction.)

Tenn., Dyersburg.—Dyer County will construct 8 mi. section of Jeff Davis highway connecting Dyersburg and Newbern; bids until

June 3; sold \$670,000 bonds. Address Highway Comsn.

Tenn., Jackson.—Madison County will sell \$100,000 bonds for road construction; J. T. Rothrock, Jr., County Judge.

Tenn., Mountain City.—Dept. Highways, State of Tennessee, Nashville, Tenn., will construct 9.91 mi. State Highway No. 16 between Holston river and Mountain City in Johnson and Sullivan counties; Federal Aid Project No. 11; bids until June 3; W. P. Moore, Ch. Engr., Nashville. (See Machinery Wanted—Road Construction.)

Tenn., Paris.—Louisville & Nashville R. R., W. H. Courtenay, Ch. Engr., Louisville, Ky., let contract to Geo. H. Rommel Co., Louisville, Ky., for boiler house; 125x150 ft. and 50 ft. high; \$100,000.

Tex., Corpus Christi.—Nueces County will construct 22.16 mi. State Highway No. 42; gravel and bituminous topping; \$425,000; H. R. Sutherland, County Judge; O. N. Powell, County Engr.

Tex., Crowell.—Foard County will construct roads; voted \$150,000 bonds; G. L. Burk, County Judge. (Lately noted to vote.)

Tex., Eagle Pass.—City will improve streets; vote May 25 on \$40,000 bonds. Address The Mayor.

Tex., Greenville.—Hunt County let contract to Turner & Bethune, Terrell, Tex., for 8.71 mi. earthwork on Jefferson highway on Greenville-Sulphur Springs road; John L. English, County Auditor. (Lately noted inviting bids.)

Tex., Hallettsville.—Lavaca County Road Dist. No. 2 will sell \$60,000 bonds for road construction; J. A. Sommerlatte, County Judge.

Tex., Itasca.—City will pave streets. Address The Mayor.

Tex., Laredo.—Webb County let contract to Wear, Thomas & Ratliff, Rogers, Tex., at \$290,434.10 for 35.42 mi. Laredo-to-San Antonio highway; A. Winslow, County Judge. (Lately noted.)

Tex., McKinney.—Collin County will construct Dallas Branch of Dallas Highway No. 5 in Blue Ridge Precinct; voted \$52,000 bonds; O. T. Murray, County Judge; F. W. Cawthon, County Engr.

Tex., McKinney.—Collin County let contract to D. H. Purvis, Fort Worth, Tex., for 40 mi. road; T. O. Murray, County Judge.

Tex., New Braunfels.—Comal County applied for aid for proposed construction of 17.25 mi. gravel and macadam road on State Highway No. 46; \$103,500.76; Chas. Roeper, County Judge.

Tex., Paris.—Lamar County will construct 5.3 mi. Roxton road; gravel; bids opened; W. L. Hutchinson, Chrmn. County Board of Road Commrs.

Tex., Sierra Blanca.—Hudspeth County will construct 24.82 mi. Highway No. 1, F. A. P. No. 245; 46,798.4 cu. yds. gravel; bids until May 31; A. E. Polk, County Clk. (See Machinery Wanted—Road Construction.)

Va., Hillsville.—Carroll County will construct road from Jacksons Ferry to North Carolina line, 32 mi.; road from Galax to Floyd county line, 65 mi.; sold \$300,000 bonds. Address County Commrs. (Lately noted.)

W. Va., Charleston.—State Roads Comsn., has distributed a \$15,000,000 state road fund among various counties, individual amounts ranging from \$102,960 to \$495,495; average per county is \$273,373.

W. Va., Clarksburg.—Harrison County let contract to Rogers & Shumway, Portsmouth, O., at \$49,198.20 for grading and draining 4 mi. McIntyre road; \$8,610 for 1 mi. Haywood Junction road; Tulley Construction Co., Weston, W. Va.; \$13,113.40 for .7 mi. Enterprise road; \$7,952 for 1 mi. Shinnston road;

Clair N. Parrish, Clk. County Court. (Lately noted inviting bids.)

W. Va., Fayetteville.—Fayette County will grade 3 sections of county road from Quinimont to Stone Cliff; 12.5 mi.; bids until June 6; J. K. McGrath, Road Engr. (See Machinery Wanted—Road Construction.)

Sewer Construction.

Ga., Vadaia.—Voted \$60,000 sanitary sewer bonds; install septic tanks. Address The Mayor. (Lately noted to vote.)

Mo., Eldon.—City will construct sewer system and disposal plant; cost \$71,083.20; E. T. Archer & Co., Engrs., Kansas City, Mo. Address The Mayor.

Mo., Excelsior Springs.—City, R. T. Stephens, City Atty., will construct \$25,000 sewerage disposal plant; bids until June 9; Shockley Engineering Co., Engr., Kansas City, Mo. Lately noted voted bonds. (See Machinery Wanted—Sewers.)

Mo., New Madrid.—City, W. R. Pimell, Mayor, will install sewer mains; A. C. Moore, Consult. Engr., 220 Independence Bldg., Joplin, Mo.

Mo., St. Louis.—Board of Public Service let contract to Frazier-Davis Construction Co., Arcade Bldg., to construct 2,975 ft. 12 to 15 and 39 to 51-in. vitrified clay and brick or segment block pipe sewer in Harlem-Goodfellow Joint Sewer Dist.; cost \$37,305; to Fruin & Colson Construction Co., Merchants-Laclede Bldg., to construct 9,085 ft. 39 to 48 and 6 to 36-in. brick or segment block pipe sewer in Glaise Creek Sewer Dist. No. 17; cost \$62,280; to Frazier-Davis Construction Co., Arcade Bldg., to construct 5,930 ft. 12 to 36-in. vitrified pipe sewer in Clifton Heights Sewer Dist. No. 3; cost \$23,000. (Lately noted bids until Apr. 26.)

N. C., Mt. Airy.—City, A. V. West, Mayor, contemplates constructing sewer system; cost approximately \$75,000.

N. C., West Asheville.—T. J. Horney will install sewer pipe for 100-acre Rumbough property.

N. C., West Asheville.—City will issue \$40,000 sewer system extension bonds. Address The Mayor.

Okla., Ada.—City voted \$75,000 sewer extension bonds. Address The Mayor.

Okla., Duncan.—City, J. F. Ewell, Mgr., voted \$200,000 sewer extension bonds. (Lately noted to vote.)

Okla., McAlester.—City will vote May 31 on \$50,000 bonds to improve and extend sewer system. Address The Mayor. (Lately noted contemplated.)

Okla., Sand Springs.—City will install storm sewers; bids until June 1; Holway Engineering Co., Engr. Address The Mayor.

Okla., Stillwater.—City will construct 15 and 24-in. vitrified sewer mains and disposal plant; bids until June 1; J. W. McLendon, Engr. Address The Mayor.

S. C., Greenwood.—City, A. McD. Singleton, Treas., plans extending sewer system, construct additional plants, and repair sewerage disposal plant. (Lately noted issued bonds.)

Tex., Garland.—City plans install sewerage plant and water-works; L. L. Campbell, Prest., Commercial Club, interested.

Tex., Ladonia.—City will vote June 20 on \$35,000 sewer system bonds. Address The Mayor.

Shipbuilding Plants.

Fla., Miami.—Drydock, etc.—Merrill-Stevens Drydock & Repair Co., Jacksonville, Fla., contemplates establishing marine railway and repair station.

S. C., Charleston.—Drydock.—Navy Dept., Bureau of Yards and Docks, Washington, D. C., interested in construction drydock at Navy Yard.

Telephone Systems.

Fla., Miami.—Navy Dept., Bureau of Yards and Docks, Washington, D. C., let contract to A. Bentley & Sons Co., Toledo, O., and Jacksonville, Fla., to construct operating buildings, wireless station, fireproof construction; \$6,000. (Supersedes recent item.)

Ky., Louisville.—War Dept., Washington, D. C., will construct automatic telephone system between dams and hydraulic works along Ohio River, including 101 stations and 1,227 mi. line.

Tex., Orange.—L. M. Shepardson, Secy. Chamber of Commerce interested in building telephone line to oil field.

Tex., Sabine.—Government reported to erect 2 radio compass stations; approximate cost \$10,000.

Textile Mills.

Ga., Helena.—City voted \$30,000 water-works bonds. Address The Mayor.

Miss., Macon.—City, J. J. Scott, Clk., will drill wells for Light & Water Plant; bids until May 30. (See Machinery Wanted—Well Drilling.)

N. C., Hickory.—Yarns, etc.—A. A. Shuford Mill Co., lately noted to erect mill, has indefinitely postponed building this plant.

N. C., West Asheville.—T. K. Horney will install water lines for 100-acre Rumbough property.

Water-Works.

Ark., Arkadelphia.—Arkansas Light & Power Co., Pine Bluff, Ark., Pete Couch, Local Mgr., let contract to J. D. Brock, to install purification and filter plant; Wm. Crooks, Chief Engr.; M. Z. Bair, State Sanitary Engr. (Lately noted contemplated.)

Fla., Jacksonville.—Jno. S. Bond, Chrmn. City Commn., contemplates constructing 10,000,000-gal. per day water softening and filtration plant; cost approximately \$150,000.

Fla., Millville.—City issued \$27,000 bonds to install water-works and electric lights. Address The Mayor.

Fla., St. Petersburg.—City, R. E. Ludwig, Director of Public Utilities, will install electrically driven pumping machinery in pumping station; bids until June 6; G. B. Shepard, Director of Finance. Lately noted bids until May 23. (See Machinery Wanted—Water-Works.)

Fla., Valparaiso.—City, Jno. B. Perrine, Mayor, interested in installing water-works; invites bids. (See Machinery Wanted—Water-Works.)

Ga., Bibb City, P. O. Columbus.—City voted \$15,000 water supply bonds. Address The Mayor.

Ga., Elberton.—City, J. T. Dennis, Jr., Mayor, voted \$15,000 water-works extension bonds; H. S. Jaudon Engineering Co., Engr. (Lately noted to vote.)

Ga., Toccoa.—City, C. H. Dance, Mayor, voted \$90,000 bonds to enlarge filters of water-works, pave streets, etc.

Ky., Harrodsburg.—City will improve water-works; bids until June 15; Pearce, Greeley and Mansey, Engrs., Chicago, Ill. Address The Mayor. (Lately noted voted bonds.)

Ky., Owensboro.—Old Owensboro Water-Works Co., will install chlorinator.

Mo., Jasper.—City, J. Hall, Mayor, plans voting on \$40,000 bonds to build water-works

and electric light plant; A. C. Moore, Engr., Independence Bldg., Joplin, Mo.

Mo., Kirksville.—City will vote June 21 on \$285,000 bonds to rebuild and improve water-works. Address The Mayor.

N. C., West Asheville.—City will issue \$25,000 water supply extension bonds. Address The Mayor.

N. C., Shelby.—Town, O. M. Suttle, Clk. Board of Aldermen, will issue \$50,000 water and light extension bonds.

Okla., Ada.—City voted \$250,000 water-works extension bonds. Address The Mayor.

Okla., Duncan.—City, J. F. Ewell, Mgr., voted \$300,000 water-works extension bonds. (Lately noted to vote.)

Okla., Grandfield.—City issued \$30,000 water bonds. Address The Mayor.

Okla., Pawhuska.—City plans voting on \$150,000 bonds to complete water-works and dam. Address The Mayor.

Tenn., Knoxville.—City, Neal Adams, Commr. Water-Works Dept., will improve water-works; F. E. Malone, City Engr.; Chester & Fleming, Const. Engr., Union Bank Bldg., Pittsburgh, Pa.; voted May 20 on bonds.

Tex., Amarillo.—City contemplates improving water supply; Frank Jones, Engr.

Tex., Garland.—City plans installing water-works and sewerage plant; L. L. Campbell, Prest. Commercial Club, interested.

Tex., Ladonia.—City will vote June 20 on \$15,000 water-works extension bonds. Address The Mayor.

Tex., Rockdale.—City, H. C. Meyer, Mayor, may vote on \$40,000 bonds to install water-works tower, and pave streets and alleys.

Va., Richmond.—City, Mayor Ainslie will construct water tower; \$25,000 available.

Woodworking Plants.

Ark., Pine Bluff.—Staves.—Jeff Dent will remodel plant, for mfrs. of staves used in making nail kegs; daily capacity 8,000 staves.

D. C., Washington.—Wheels.—Wishbone Standard Wheel Corp., capital \$600,000 inceptd. by C. T. Cohee, C. B. Outten, S. L. Mackey.

Mo., St. Louis.—Step-Ladders, etc.—Daynite Furniture Mfr. Co., Cape Girardeau, Mo., contemplates establishing branch office; mfrs. of step ladders, store fixtures, window display racks.

Tenn., Chattanooga.—Cedar Chests.—Acme Mfg. Co., E. E. Burner, Prest., South Bend, Ind., will erect two 21x45-ft. dry kilns and 2 story 45x80-ft. mill; construction by owner; mchly. purchased. (Lately noted to erect.)

Tenn., Johnson City.—Chairs.—Empire Chair Co., repairing plant, costing several thousand dollars.

Tex., Dallas.—Furniture, etc.—Berry-Dennis Hide & Furniture Co., capital \$35,000; inceptd. by G. S. and A. H. Berry, C. J. Dennis.

Va., Norfolk.—Cabinets.—Brooks Cabinet Co., capital \$25,000; inceptd. with C. H. Brooks, Prest.; R. E. Davis, Secy.; mfrs. cabinets.

W. Va., Bluefield.—Woodworking.—Bailey Lumber Co., E. L. Bailey, Prest., will expend \$70,000 on plant improvements; install wood-working mchly.

W. Va., Burnsville.—Handles, etc.—Burnsville Handle & Dimension Co., capital \$25,000; inceptd. by M. W. Hefner, J. C. Remage, Ben L. Beall.

W. Va., Burnsville.—Handles.—Burnsville Handle & Dimension Co., capital \$25,000; C. D. Howard, Prest., Cowen, W. Va.; F. K. Johnson, Secy.; M. W. Hefner, Treas.; J. C. Remage, Mgr., all Burnsville; install mchly. for mfr. of vehicle spokes, rims, handle and dimension lumber. (See Machinery Wanted—Woodworking Machinery.)

In writing to the parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Fire Damage.

Ala., Center.—Merchants & Farmers Bank's 2 buildings; Stinson & Haney Mercantile Co.'s building; E. J. Moses' warehouse.

Ala., Florence.—Edward Darby's shutter factory.

Ala., Gadsden.—Merchants & Farmers' Bank and other buildings; loss, \$40,000.

Ala., Livingston.—State Normal School warehouse, domestic science building and infirmary.

Ala., Tibbie.—F. L. Pedneau's sawmill; loss \$11,500.

Ark., Pine Bluff.—Geo. Crowe's grocery store, 1618 W. Barraque St.

Fla., Bartow.—Mrs. R. A. LaShear's residence on Church St.

Fla., Clearwater.—Smith Cafeteria on Cleveland St. Address The Proprietor.

Ga., Atlanta.—Jacob Hirsch's building; loss \$25,000.

Ga., Lakemont.—Lindsay Hopkins' residence.

Ky., Covington.—United States Overall Mfg. Co.'s factory No. 5, C. S. Allen, Secy.-Treas.; building owned by Crigler & Crigler Distributing Co.; total loss \$250,000.

Ky., Covington.—Crigler Building. Address Owner.

Ky., Farmer.—Rowan County Freestone Co.'s plant; loss \$50,000.

Ky., Frankfort.—Dairy barn at Feeble Mind Institute.

Ky., Ludlow.—Lagoon Dance Hall; loss \$10,000.

Ky., Pleasureville.—James & Flurry Smith's grocery store; Bernhardt Barber Shop; Kentucky Creameries; Lew Church's grocery store; W. E. Malin's drug store; Home Telephone Exchange; loss \$50,000.

La., Newton.—Monroe Cotton Oil Co.'s plant; loss \$150,000.

La., Plaquemine.—Schwing Lumber & Shingle Co.'s Mill; loss \$85,000.

Md., Frostburg.—Lyric Theater owned by Harry Colburn and Frank Watts; loss \$50,000.

Md., Hagerstown.—Central Chemical Co.'s mixing plant; loss \$40,000 to \$50,000.

Md., Lanham.—Thos. T. Keane's residence.

Mo., Marshfield.—Marshfield Supply Co.'s cannery and warehouse; loss \$75,000.

S. C., Allendale.—Allendale Cotton Oil & Fertilizer Co.'s plant, J. H. Hewlet, Mgr.; loss \$75,000.

S. C., Chesterfield.—Teal Light & Power Co.'s plant, at Teal's pond; loss \$12,000.

S. C., Iva.—Sherard Land & Mercantile Co.'s ginny, at Moffettville; loss \$15,000.

Tenn., Carthage.—Farmers' Loose Leaf Warehouse Co.'s prizing warehouse.

Tenn., Hartsville.—W. H. Walker's prizing warehouse.

Tenn., Wildersville.—Nashville, Chattanooga & St. Louis Ry.'s station; H. McDonald, Ch. Engr., Nashville; Johnson Bros.' store, loss \$12,000; Wildersville Supply Co.'s building, \$15,000; J. P. Parker's building, \$5,000; J. J. Williams' store, \$10,000; Wildersville Hardware Co.'s store, \$20,000; Wildersville Bank, \$3,000; Dr. W. I. Howell's residence, \$3,000.

Tex., McKinney.—J. P. Crouch & Co.'s store; Mrs. Jno. L. Lovejoy's buildings.

Tex., Mexia.—Prince Rupert Cafe and Mexia garage and machine shop.

Tex., Paris.—Lamar Lumber Co.'s plant; loss \$10,000.

Damaged by Storm.

Tex., La Porte.—A. O. Blackwell's residence.

BUILDING NEWS

BUILDINGS PROPOSED

Apartment-Houses.

Ala., Birmingham.—C. W. Green and H. M. Henderson will erect \$100,000 apartment house on Highland Ave., facing Rhodes Park.

Fla., St. Augustine.—Chas. E. Young will erect 3-story apartment house at Charlotte and Treasury Sts.; brick and stucco; Spanish style.

Mo., St. Louis.—C. Ulman, 4540 Lindell Ave., is reported to erect 2 8-story apartment houses on Kingshighway and Lindell Ave.; 50x100 ft. and 95x98 ft.; P. J. Bradshaw, Archt., International Life Bldg.

Okla., Tulsa.—J. and L. Lyons will erect \$10,000 apartment house at 5024 S. Xanthus St.

Tex., Dallas.—Halper, Inc., 3760 Broadway, New York, is reported to have purchased site through office of C. L. Smith & Co., Dallas, for erection of \$400,000 apartment house at Maple and Wolff Aves.; brick; 3 stories; 200x200 ft.; central court with wing on either side; 101 apartments of 2 or more rooms each; also considering erecting apartments on Ervay St., in East Dallas, Oak Cliff and other locations.

Tex., Dallas.—Max Fox will erect \$12,000 apartment house at 3031-33 Park Row; 2 stories; brick veneer.

Tex., Dallas.—N. Rosenberg will erect \$16,000 apartment house at 1901-3 Park Row; 20 rooms; brick veneer.

Tex., Houston.—Lee Rogerson will erect \$10,000 store and apartment building at Truxillo and Travis Sts.; 2 stories.

W. Va., Charleston.—Israel Berman will erect \$15,000 apartment house on Trustlow St., between Brown and Lovell Sts.; 2 stories; 48 rooms; 12 suites; brick and tile; 30x160 ft.

W. Va., Charleston.—Assad K. Zegeer will erect \$18,000 apartment house on Washington St., between Beauregard and Ruffner Sts.; 2 stories; 35 rooms; brick and tile; 32x128 ft.

Association and Fraternal.

Ark., Flippin.—Ancient, Free and Accepted Masons and Independent Order of Odd Fellows will erect lodge building; 2 stories; stone; 40x60 ft.; business room on first floor.

Ga., Atlanta.—Grand Park Lodge No. 604, F. & A. M., Arthur R. Marbut, Prest., W. Oscar Gifford, Secy., will erect 3-story temple.

Mo., Kansas City.—Park Lodge No. 617, A. F. & A. M. will erect \$50,000 temple at 16th St. and Swope parkway; 3 stories and mezzanine; Brostrom & Drotts, Archts.

Okla., Enid.—Independent Order of Odd Fellows will expend \$25,000 to remodel building on S. Grand St.

Tex., Stamford.—Ancient Free and Accepted Masons plan to erect building.

Tex., Stamford.—Independent Order of Odd Fellows plan to erect building.

Okla., Tulsa.—Akdar Corp., A. C. Farmer, Prest., will erect \$400,000 shrine temple at 4th and Denver Sts.; fireproof; steel and concrete; theater, ball room, banquet room and lodge rooms; site, 140x158.4 ft. (Lately noted.)

Bank and Office.

Ky., Louisville.—Fourth Ave. and Broadway Realty Co. will repair building at 662 S. 4th St. damaged by fire; cost, \$12,000.

N. C., Lexington.—Dr. J. A. Smith will erect 2-story office building on East Center St.; pressed brick.

Okla., Tulsa.—Atlas Life Insurance Co., H. O. McClure, Prest., will erect building on Boston Ave.; 10 or more stories; site, 100x140 ft.; storerooms on first floor; Rush, Endicott & Rush, Archts.

Okla., Tulsa.—Dr. Walter Wright will erect 8-story addition to Wright Bldg.

Tex., Beaumont.—San Jacinto Life Insurance Co., H. M. Hargrove, Prest., will move 3-story building and erect structure at Orleans and Fannin Sts.; 12 or more stories; cost \$600,000 to \$700,000; brown face brick and steel; ornamental terra cotta trim; polished granite base; 60x115 ft.; foundation to provide for additional stories later; 15 offices on each floor; Sanguinet, Staats & Gottlieb, Archts., Houston and Fort Worth; Joseph C. Beck, Asso. Archt., Beaumont; John Egert, Galveston, Contr. for moving present building. (Lately noted.)

Va., Galax.—First Natl. Bank, C. A. Collier, Cashier, will erect brick building; previously noted; 30x130 ft.; tile, hardwood and composition floors; hot water heat; electric lights; metal ceilings; ornamental terra cotta; interior tile; H. M. Miller, Archt., Roanoke. (See Machinery Wanted—Office Fixtures; Vault Door; Lighting Fixtures.)

W. Va., Beckley.—Beckley Natl. Bank will erect bank and office building at Main and Fayette Sts.; fireproof; 3 to 7 stories; site, 50x75 ft.

Churches.

Ark., Prescott.—Christian Church, Rev. Theo. F. Hall, Chrmn. Bldg. Comm., will erect \$12,000 brick veneer building.

Fla., Jacksonville.—St. John's Episcopal Church, Rev. Dr. Van Winder Shields, Rector, will erect \$100,000 parish house on St. John's Place; 3 stories; 45x108 ft.; Indiana limestone, dressed stone trim; rubble stone; Tudor period English architecture; tile, wood and concrete floors; gymnasium, auditorium, class rooms, etc.; Marsh & Saxebye, Archts.

Fla., Jacksonville.—Main Street Christian Church will erect \$100,000 building on 9th St., between Main and Laura Sts.; pressed brick; stucco base; dome; Spanish style; P. J. McCullough Co., estimating. Address The Pastor. (Previously noted.)

Fla., Pensacola.—First Baptist Church, Rev. A. J. Moncrief, Pastor, 106 W. Cervantes St., will open bids about June 1 to erect \$20,000 addition; 46x92 ft.; brick veneer; metal or composition shingle roof; concrete and pine floors; steam or gas-steam heat; electric lights; metal ceilings; rolling partitions; windows; plumbing; gymnasium equipment; Walker D. Willis, Archt., Pensacola. (Lately noted.)

Fla., St. Petersburg.—First Baptist Church plans to complete building; Geo. H. Feltham, Archt.

Fla., St. Petersburg.—Presbyterian Church will erect \$40,000 Sunday school building; W. W. Carr, Archt.

Miss., Jackson.—First Baptist Church plans to erect \$200,000 building. Address The Pastor.

Mo., Boonville.—Emanuel Evangelical Lutheran Church will erect church and rectory. Address The Pastor.

In writing to the parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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tioned.

Mo., St. Louis.—Grand Ave. United Presby- terian Church, Grand Ave. and Forest Park Blvd., Rev. Willis Crafts, Pastor, will erect \$75,000 building on De Tonty St., nr. Law- rence Ave.

N. C., Greensboro.—Asheboro Street Baptist Church, Rev. B. K. Mason, Pastor, will erect Sunday school building and enlarge church auditorium; cost, \$20,000; 56x86 ft.; 30 rooms; brick veneer.

Okla., Morris.—First Baptist Church will erect \$20,000 building; 1 story and basement; brick, stone trim; composition roof; M. T. Hardin, Archt., Muskogee.

Okla., Oklahoma City.—Greek Orthodox Church, John Sinopoulo, Chrmn. Bldg. Comm., will erect \$50,000 building.

S. C., Chester.—First Baptist Church, Rev. Robert G. Lee, Ph. D., Pastor, will erect build- ing.

Tex., Fort Worth.—Broadway Baptist Church, St. Louis St. and Broadway, Rev. Forrest Smith, Pastor, will erect \$100,000 four-story Sunday school building and \$150,000 church; former to have gymnasium, swimming pool, etc.; W. C. Meador, Archt.

Tex., San Antonio.—Baptist Church will erect \$100,000 building; brick and concrete; Beverly W. Spillman, Archt.

Va., Big Island.—Baptist Church, Rev. R. E. Brown, Chrmn. Bldg. Comm., will erect \$13,000 building; 1 story; 48x60 ft.; brick; Herbert L. Cain, Archt., 12 N. 9th St., Richmond; con- struction by owner.

City and County.

Fla., Valparaiso.—Municipal Building, etc.— City, John B. Perrine, Mayor, will erect munici- pal building; 3 stories; 100x150 ft.; also erect municipal bathhouse; bids invited.

Ky., Owensboro.—Home.—City, John C. Cal- houn, Mayor, will erect \$15,000 to \$20,000 nurses' home at city hospital.

Md., Baltimore.—Fire Engine House.—Fire Board, Clinton O. Richardson, Prest., 13 Guil- ford Ave., will erect fire engine house at 14th St. and 5th Ave., Canton.

Mo., Kansas City.—Jackson County, Peters Kelly, Clk., will expend \$25,000 to remodel and erect addition to detention home at 5th and Oak Sts.; 2 stories; 34x55 ft.; brick and rein- forced concrete; stone trim; composition roof; White & Dean, Archts., Anderson and Belle- fontaine Aves.

Okla., Anadarko.—Home.—Caddo County Commrs. will erect home; 2 stories; 144x42 ft.; stucco over frame; composition roof; Arthur G. Dole, Archt., Guthrie.

W. Va., Princeton.—Jail.—Mercer County, Lowery G. Bowling, Clk., will receive bids until May 28 to erect addition to jail; plans and specifications at office of County Clk. and office of Wysong, Tufts & Jones, Archts.

Dwellings.

Ala., Ensley.—First Christian Church will erect parsonage at Ave. F. and 21st St. Ad- dress The Pastor.

Ala., Gadsden.—Col. R. B. Kyle is erecting 2-story residence on Forest Ave., between 9th and 10th Sts.; plans to erect 2 more dwellings later.

Ark., Little Rock.—E. J. Carter will expend \$2,500 to repair residence; also erect 2 resi- dences; cost, \$12,000.

Fla., St. Petersburg.—Mrs. Reinhart will erect \$15,000 residence at Euclid Ave. and Broadway; interlocking tile and stucco; oak and linoleum floors; Spanish tile roof; 1½ stories; 4 porches with Spanish tile floors; interior tile; W. W. Carr, Archt.

D. C., Washington.—Boss & Phelps will erect \$10,000 residence at 1834 Vernon St.

D. C., Washington.—M. J. Brayton will erect 2 dwellings at 1602-4 Montague St., N. W.; cost \$50,000.

D. C., Washington.—Mrs. John P. Evans will erect residence and garage at 1610 Long- fellow St.; cost, \$10,500.

D. C., Washington.—T. L. Lewis will erect 3 dwellings at 1201-3-5 Perry St.; cost, \$14,000.

D. C., Washington.—C. H. Small will erect \$20,000 residence at 4830 16th St.

Fla., St. Petersburg.—E. H. Long will erect 5 dwellings on 3d and 4th Aves., north; cost \$13,000; sypress siding; plans to erect more residences later.

Md., Baltimore.—Harry Poster, Hamilton, will erect 2 stores and dwellings and 1 dwell- ing at Harford Rd. and Hamilton Ave.

Md., Baltimore.—Howard Skinner, 435 Eve- sham Ave., will erect 4 2-story brick dwellings at 381-7 Evesham Ave.; cost, \$10,000.

Miss., Edwards.—B. F. Suttle will erect \$10,000 residence; Emmett J. Hull, Archt., Daniel Bldg., Jackson.

Miss., Scooba.—Baptist Church will erect parsonage. Address The Pastor.

Mo., Kansas City.—Morrow Investment Co. purchased property at 55th and Holmes Sts. and plans to erect 20 dwellings.

Mo., Kansas City.—Maurice K. Baker, Guar- anty Trust Co. will erect \$30,000 residence on Sunset Dr., nr. Mercier St.; English type.

Mo., Kansas City.—John H. and J. W. Kel- ley purchased property at 35th St. and Benton Blvd. and will erect 30 dwellings.

N. C., Charlotte.—Troy Peters, W. A. Mathe- son, Jr., T. D. Aldridge and others organized Charlotte Realty & Construction Co.; capital \$100,000; will erect dwellings.

N. C., Charlotte.—W. L. Hand is erecting 10,000 residence on Queens Rd., Myers Park; 8 rooms.

Okla., Oklahoma City.—Hoopes & Thomas will erect 22 dwellings on Pennsylvania Ave., Las Vegas addition; cost \$4,000 each. (Lately noted.)

Okla., Tulsa.—V. B. Walker, Tulsa Hotel, will erect \$10,000 residence at 1605 S. Denver St.; 2 stories and basement; 28x45 ft.; frame; shingle roof; Atkinson & Olston, Archts., 815 Mayo Bldg.

Okla., Tulsa.—Adams & Walker will erect 2 dwellings at 1719 and 1723 E. 13th St.; cost, \$12,000.

Okla., Tulsa.—Roy Jackson will erect 2 dwellings at 1436 and 1440 E. 17th Pl.; cost, \$12,000.

Okla., Tulsa.—H. L. Sullivan will erect \$51,000 residence at 416 S. Gillette St.

Tenn., Knoxville.—Cockrum Lumber Co. will erect 10 5-room dwellings on Mitchell St.

Tex., Dallas.—R. L. Munger is erecting resi- dence in Mount Vernon; cost, about \$150,000; C. D. Hill & Co., Archts.

Tex., Dallas.—J. Fred Schoellkopf will erect 2-story residence on Beverly Dr.; English ar- chitecture; tapestry brick; stone trim; varie- gated slate roof; cost about \$150,000; C. D. Hill & Co., Archts.

Tex., Houston.—Houston Land Corp. will erect \$10,000 duplex residence on Hawthorne St.; 2 stories; 10 rooms.

Tex., Houston.—H. G. Fields will erect 6 6-room cottages; cost, \$10,500.

Tex., Stamford.—First Baptist Church, Rev. Mr. Rowan, Pastor, will erect parsonage.

Tex., Uvalde.—Episcopal Church will erect \$12,000 rectory; Phelps & Dewees, Archts., San Antonio.

Va., Graham.—T. E. Baker will erect num- ber of dwellings; cost, \$4,000 to \$5,000, one, \$7,500; frame; metal shingle roofs; wood floors; hot water heat; hollow fireproof tile;

metal ceilings; construction by owner. (Lately noted.)

Va., Richmond.—A. C. Carneal will erect 3 dwellings on Moss Side Ave. and 612 Montrose Ave.; brick; cost \$14,430.

W. Va., Charleston.—Joshua Davis will erect 2½-story residence and 1½-story garage on Kanawha St., between California and Michigan Sts.; 9 and 4 rooms; brick and tile; cost \$17,500.

W. Va., Charleston.—Dr. E. B. Stephenson will erect 9 frame dwellings on Darst St., between Greenbrier and Duffy Sts.; 2 stories; 6 rooms; cost, \$22,500.

Government and State.

Mo., Washington.—Post Office.—Treasury Dept., Jas. A. Wetmore, Acting Supvr. Archt., Washington, D. C., will receive bids until June 3 to erect post office; plans and specifications from custodian of site or at office of Suprv. Archt.

Okla., Fort Reno.—Surgical Building, etc.— Chief of Second District, Construction Ser- vice, Quartermaster Corps, Fort Sam Houston, Tex., will receive bids in triplicate until May 31 for construction of surgical and medical ward building for veterinary hospital; speci- fications and information from Chief of Second District; information also from Quartermaster at Fort Reno. (Lately noted.)

Tex., Galveston.—Storehouse.—Galveston Dis- trict, United States Engineers, Maj. L. M. Adams, Engr. in charge, will erect reinforced concrete fireproof store house at Fort Point to replace burned structure; cost \$20,000.

Hospitals, Sanitariums, Etc.

Ga., Savannah.—City defeated \$300,000 bond issue for municipal hospital; Robt. W. Groves, E. H. Abrahams and Dr. Geo. R. White, Comm. (Lately noted.)

Md., Baltimore.—Union Memorial Hospital, Saml. C. Rowland, Chrmn. Comm., Calvert Bldg., rejected bids to erect hospital buildings on 33rd St., between Calvert St. and Guilford Ave.; date of opening new bids indefinite; plans provide main entrance in central build- ing, about 30 ft. back of building line, ap- proached by driveway and steps; first floor for offices, library, boardrooms, etc.; bedrooms and baths for internes and suite for resident phy- sicians at east end of first floor; Superinten- dent's suite on opposite side; dining room in central building; 2 elevators; Jos. Evans Sperry, Archt., Calvert Bldg. (Lately noted.)

Miss., Laurel.—State Bond Improvement Comsn., Theo. C. Link, Supvr. Archt., Director, Public Works, P. O. Box 636, Jackson, Miss., will receive bids until May 30 to erect nurses home at South Mississippi Charity Hospital and for plumbing and electric wiring of same; plans and specifications at office of Suprv. Archt.

Mo., Warrensburg.—County will vote in August on \$150,000 bonds to erect county hos- pital. Address County Commrs.

Okla., Ada.—Dr. J. G. Breco is interested in erection of hospital.

Hotels.

Ala., Jasper.—Cranford Mercantile Co., J. H. Cranford, Prest., will erect Hotel Chesford; 42x140 ft.; 2 stories; stores on lower floor; brick; stone trim; built up roof; wood floors; direct steam heat; Bem Price, Archt., Jeffer- son County Bank Bldg., Birmingham; day labor. (Lately noted.)

Fla., Miami.—C. A. Roberts, Briggs House, Chicago, is reported to erect \$200,000 hotel on W. Flagler St.; 3 stories; 150 rooms; elec- trically heated; private baths; Geo. L. Pfeiffer, Archt., Miami; remodel Majestic Hotel to be

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used in conjunction; also erect 2 stores on First St.

Fya., St. Petersburg.—J. G. McCrory will erect 2-story addition to Jones block, Central Ave. between 4th and 5th Sts., for hotel.

Fla., Tampa.—Eugene Roy will erect 100-room hotel; Spanish Renaissance type; cost \$175,000; M. Leo. Elliott, Archt.

La., New Orleans.—Panama Hotel Co., 626 Whitney-Central Bldg., Edw. Nathan, Prest.; Jas. A. Kirby, V.-P.; F. A. Remanjon, Secy.-Treas.; plans to erect 17-story hotel to be known as Hotel Panama; 500 rooms; equipped with ceiling fans, circulating ice water, etc.; Favrot & Livaudais, Archts.

Mo., Springfield.—A. J. Eisenmayer and associates will convert 2 upper floors of Fraternity Bldg., 400 block, St. Louis St., into hotel; fireproof; 72 rooms; cost \$50,000.

N. C., Statesville.—C. V. Henkel will erect hotel for Statesville Hotel Co.; 70 to 100 rooms. (Lately noted.)

S. C., Great Falls.—Republic Cotton Mills will erect 8-room annex to hotel.

Tex., Brownsville.—Mrs. C. Moore is reported to erect 6-story hotel; steam heat; cost \$250,000; A. B. Ayres, Archt., Bedell Bldg., San Antonio.

Tex., Mexia.—Mexia Hotel Co. will erect Halson Hotel; 6 stories and basement; fireproof; steel frame; metal ceilings; interior tile; ornamental terra cotta; concrete floors; steel sash and trim; metal doors; wire glass; safes; mail chutes; 2 elevators; cost \$300,000; Hubbell & Green, Archts., Dallas. Address Hal Thompson, Mexia. (Lately noted.)

W. Va., Charleston.—Capt. G. E. Ferguson, Dunbar, W. Va., will erect hotel and theater; 27.4x76 ft.; brick, terra cotta and tile; Johns-Manville built up roof; marbleoid, hardwood and concrete floors; metal ceilings; safes; wire glass; vaults; mail chutes; ventilators; vault lights; hot water heat; electric lights; cost about \$125,000; bids opened June 4.

Miscellaneous.

D. C., Washington.—Stable.—F. W. MacKenzie will erect stable at 322-24 C St.; cost \$20,000.

Fla., Fort Lauderdale.—Amusement Pier.—A. H. Brook and others plan to erect 500-ft. amusement pier.

Fla., St. Petersburg.—Clubhouse.—Yacht Club will erect addition to clubhouse; provide dining room to seat 200 people; reception room, 16x32 ft.; ball room, 60x80 ft.; hollow tile, steel and cement; dining room floor, art tile; ball room floor, hardwood; cost \$25,000; Geo. W. Stewart, Archt. (Lately noted.)

Ga., Waycross.—Baseball Park.—Jas. Sinclair is Chrmn. Comm., promoting erection of baseball park on Haynes Ave.

La., Monroe.—Library.—Anna Ruth Meyer Estate Trustees will erect building for Monroe public library.

N. C., Charlotte.—Exposition.—Carolinas Exposition Co., Jno. L. Dabbs, Prest., will erect brick and steel building; reinforced concrete floor; 40,000 sq. ft. floor space; also erect temporary building; frame; 60,000 sq. ft. space. (Lately noted.)

N. C., Duke.—Cafeteria.—Irwin Cotton Mills contemplates erecting \$60,000 cafeteria; 2 stories; brick; Milburn-Heister & Co., Archts., First Natl. Bank Bldg., Durham, N. C., and Union Savings Bank Bldg., Washington, D. C.; construction by owner.

Okla., Bartlesville.—Allois Club, Flora Harper, Prest., plans to erect clubhouse and dormitory.

Okla., Tulsa.—Swimming Pool, etc.—R. C. Alder, 906 S. Boston St., will erect swimming pool and dressing rooms; 1 story; 60x150 ft.;

frame; composition roof; cost \$20,000; H. H. Mahler, Archt., Lynch Bldg.

Tenn., Chattanooga.—Clubhouse.—Mountain City Club, 729 Chestnut St., will erect \$50,000 addition; 2 stories and basement; brick; C. E. Bearden, Archt., First Natl. Bank Bldg. (Previously noted.)

Tex., Houston.—Clubhouse.—Park Place Club, R. C. Kerr, Prest., plans to expend \$50,000 to construct clubhouse.

Va., Richmond.—Fair.—Virginia State Fair Assn., W. G. Saunders, Mgr., Mutual Bldg., will erect cattle barn; 1 story; 100x250 ft.; brick, steel and reinforced concrete; slag roof; cement floors; cost \$40,000; Edw. Sinnett, Archt.; L. P. Hartsook, Asso. Archt., both American Bank Bldg. (Lately noted.)

W. Va., Morgantown.—Clubhouse.—Morgantown Country Club, Col. J. H. McDermott and others, will erect clubhouse. (Previously noted.)

Railway Stations, Sheds, Etc.

Tex., Taft.—San Antonio & Aransas Pass R. R., L. Andrews, Ch. Engr., San Antonio, will erect brick depot.

Schools.

Ala., Anniston.—City Board of Education, Prof. D. R. Murphy, Supt., will erect addition to Pine Avenue school; also erect high school; Edw. F. Billie, Archt. (Lately noted in part.)

Ala., Bessie.—Jefferson County Board of Education, Dr. N. R. Baker, Supt., Birmingham, will erect school; D. O. Whildin, Archt., Birmingham.

Ala., Birmingham.—Jefferson County Board of Education, Dr. N. R. Baker, Supt., plans to establish junior high school at Gardendale; also to consolidate schools at Upper Coalburg, Lower Coalburg and Clift.

Ala., Greenville.—Butler County Board of Education will erect high school.

Ala., Littleton.—Jefferson County Board of Education, Dr. N. R. Baker, Supt., Birmingham, will erect school; D. O. Whildin, Archt., Birmingham.

Ala., Montgomery.—Montgomery County voted \$300,000 bonds to erect rural consolidated schools and \$200,000 for indebtedness; Jock Thornton, Prest., County Board of Education. (Lately noted.)

Ala., Northport.—County Board of Education, D. L. Smith, Supt., Tuscaloosa, will erect \$20,000 school lately noted; 14 rooms and auditorium; brick and tile block; interior tile; asbestos roof; rift pine and concrete floors; metal ceilings; steam heat; electric lights; C. M. Ayers, Archt., Holt, Ala.; bids opened May 29. Address P. B. Traweck, Chrmn. Bldg. Comm., Tuscaloosa. (See Machinery Wanted—Metal Ceiling; Tile; Heating Plant.)

Ala., Palos.—Jefferson County Board of Education, Dr. N. R. Baker, Supt., Birmingham, will erect school; D. O. Whildin, Archt., Birmingham.

Ala., Pinson.—Jefferson County Board of Education, D. N. R. Baker, Supt., Birmingham, will erect school; D. O. Whildin, Archt., Birmingham.

Ark., Watson.—School Board will erect 2-story brick school; Jas. H. Bliss, Archt., Southern Trust Bldg., Little Rock.

Fla., Jacksonville.—Mrs. Gertrude Baker Jackson will erect 2-story hotel in South Jacksonville; fireproof; brick and stone; cost \$17,000.

Fla., Lakeland.—Southern College, J. Edgar Wall, Tampa, Chrmn. Bd. of Trustees, will expend about \$500,000 for erection of buildings.

Fla., Orlando.—City voted \$300,000 bonds to erect high school and other structures.

Fla., Tallahassee.—State Board of Control, J. B. Hodges, Chrmn., will receive bids until June 8 for following work at Florida State College for Women: Complete kitchen and pantry; finish basement of Broward Hall; finish arcades from Broward Hall to Bryan Hall, and from Broward Hall to Dining Hall, including plumbing revisions in Bryan Hall; complete infirmary, adding back extension, and completing arcade to Reynolds Hall, including heating; make certain revisions in attic of annex to Reynolds Hall, and complete work in training school, including installation of heat; plans and specifications on file at and obtainable from office of Edwards & Sayward, Archts., 609 Chamber of Commerce Bldg., Atlanta, Ga.; also on file at office president of college, Tallahassee.

Fla., Valparaiso.—City, Jno. B. Perrine, Mayor, will erect high school; 12 rooms; bids invited.

Fla., Vernon.—Board of Education will erect 7-room school building.

Ga., Augusta.—Richmond Academy Board of Trustees and City Board of Education will erect jointly \$200,000 high school on campus of Academy.

Ga., Fayetteville.—Fayetteville School District Board of Trustees, T. R. Gay, Secy., will receive bids until June 1 for erection and heating of school; plans and specifications at office Wm. J. J. Chase, Archt., 140 Peachtree St., Atlanta.

Ga., Jeffersonville.—Board of Education, W. E. Hoyle, Secy., will receive bids until June 1 at office of Hupp & Shelverton, Archts., Fourth Natl. Bank Bldg., Macon, to erect school; 8 rooms, auditorium and basement; brick; ornamental terra cotta; tin roof; wood floors; steam heat; electric lights; steel sash and trim; cost \$30,000; plans and specifications at office architects. (Lately noted.)

Ga., Macon.—Wesleyan College, Dr. W. F. McQuillian, Prest., will erect dormitory, dining hall and heating plant; cost \$150,000.

Ga., Macon.—Greater Mercer University, Dr. W. G. Lee, Chrmn. Bldg. Comm., will erect president's home and dining hall; local contractors estimating; Edw. L. Tilton, Archt., 52 Vanderbilt Ave., New York; Dunwoody & Oliphant, Asso. Archts., Macon. (Previously noted.)

Ga., Macon.—Board of Education, C. H. Bruce, Supt., will erect boys' high school, Virgil Powers School with auditorium and auditoriums at Fort Hawkins, J. W. Burke, Clisby and Winship schools; total cost \$400,000.

Ga., Toccoa.—City voted \$90,000 bonds to improve schools, enlarge water works filters and pave streets in business section; C. H. Dance, Mayor.

Ga., Weston.—Weston School Dist. voted \$20,000 bonds to erect brick school. Address Dist. School Trustees.

Ky., Barlow.—School Board will erect \$20,000 addition to school.

Ky., Cynthiana.—Board of Education will erect graded school; \$20,000 bonds voted.

Ky., Georgetown.—Georgetown College contemplates erecting \$75,000 library building.

Ky., Lushy.—County Board of Education, C. A. Jones, Supt., Owenton, will erect school; receiving bids; E. A. Neber, Archt., Fort Thomas.

Ky., Madisonville.—City votes May 24 on \$75,000 bonds to erect high school. Address Board of Education.

La., New Iberia.—School Board will erect high school building; cost \$193,000.

Md., Baltimore.—Public Improvement Commission, Robt. Garrett, Chrmn., Garrett Bldg., will install heating and ventilating systems in following schools: Nos. 33, 35, 39, 62, 106; Henry Adams, Engr., Calvert Bldg.; Nos. 37,

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68, 78, 80; C. L. Reeder, Engr., 200 Saratoga St.; Nos. 4, 35, 31 and school at Hilldale; Hermann Eisert, Engr., 11 E. Lexington St.; Nos. 34, 72, 92 and school at Highlandtown; Jas. Posey, Engr., 11 E. Pleasant St.; total cost \$250,000. (Previously noted.)

Miss., Alcorn.—State Bond Improvement Commission, Jackson, will receive bids until May 30 to erect boys' dormitory at Alcorn Agricultural and Mechanical College; separate bids for plumbing and wiring; plans and specifications at office Theo. C. Link, Supervising Archt., Director, Public Works, P. O. Box 636, Jackson.

Miss., Benton.—Benton School Dist. will erect school; Thos. J. White, Supt. of Schools, Yazoo City.

Miss., Bolton.—School Board will erect \$20,000 school; 1 story; brick; Emmett J. Hull, Archt., Daniel Bldg., Jackson.

Miss., Braxton.—School Board will erect 2-story brick veneer school; cost \$15,000; Emmett J. Hull, Archt., Daniel Bldg., Jackson.

Miss., Hattiesburg.—State Bond Improvement Commission, Jackson, will receive bids until May 30 to erect academic building at Mississippi State Normal College; separate bids for plumbing and wiring; plans and specifications at office Theo. C. Link, Supervising Archt., Director Public Works, P. O. Box 636, Jackson. (Lately noted to open bids May 9.)

Miss., Mendenhall.—School Board will erect 2-story brick school; cost \$20,000; Emmett J. Hull, Archt., Daniel Bldg., Jackson.

Miss., Yazoo City.—Fugate Consolidated School Trustees will erect school building; Thos. J. White, Supt. of Schools.

Mo., Poplar Bluff.—School Board, P. C. Hays, Secy., will erect addition and alter Mark Twain School; install low-pressure steam heat and plumbing; bids opened May 24; separate bids for each piece of work or combined; plans and specifications at office L. T. Matz, Chrmn. Bldg. Comm., 301 S. 5th St.

N. C., Chapel Hill.—Trustees' Building Comm., University of North Carolina, T. C. Atwood, Engr., will receive bids until May 26 for construction services on construction of 3 class room buildings, 5 dormitories and other structures; brick walls; hollow fireproof tile; ornamental terra cotta; concrete and wood floors; slate roof; hot water heat; electric lights; cost about \$1,100,000; information and blank forms at office Mr. Atwood; H. P. will supervise construction. Address H. W. Chase, Prest. (Lately noted.)

N. C., Elizabeth City.—School Board, W. L. Small, Chrmn. Bldg. Comm., will erect 3 school buildings; \$250,000 appropriated; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham, N. C. (Lately noted.)

N. C., Fayetteville.—Board of School Commrs., Jno. A. Oates, Chrmn., will erect 2 schools; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham, N. C. (\$250,000 bonds lately noted.)

N. C., Hendersonville.—County Board of Education, J. Foy Justice, Supt., will erect \$40,000 schools at Mills River; \$20,000 bonds voted.

N. C., Hillsboro.—Building Committee will erect \$100,000 high school; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham, N. C.; ready for bids about June 25. (\$100,000 bonds lately noted.)

N. C., Kenersville.—School Board, J. T. Justice, Secy.-Treas., will erect \$25,000 school; 60x61 ft.; brick and cement; steel roof; cement and wood floors; steam heat; Will G. Armfield, Archt. Address Mr. Justice. (Lately noted.)

N. C., Lexington.—Lexington High School Dist. (Dacotah, Fowler, Hargrave, Greenwood,

Pilgrom, Nokomis, Southside, Erlanger and Lexington) voted \$225,000 bonds to erect high school. Address Davidson County Board of Education. (Lately noted.)

N. C., Mount Holly.—School Board will erect \$40,000 school and \$10,000 teacherage; \$50,000 bonds voted.

N. C., Ramseur.—Ramseur School Dist. voted \$75,000 bonds to erect school. Address Randolph County Board of Education, Asheboro. (Lately noted.)

N. C., Wadesboro.—Board of Education will erect \$75,000 school; 150x90 ft.; brick; Barrett roof; hardwood floors; electric lights; W. J. Wilkens & Co., Archts., Florence, S. C.

N. C., Winston-Salem.—Vienna township voted tax to erect high school; fireproof; cost \$30,000. Address Forsyth County Board of Education. (Lately noted.)

Okl., Custer.—Board of Education, Lee Nash, Secy., will erect \$35,000 school; 2 stories and basement; brick; stone trim; composition roof; M. Jayne, Archt., First Natl. Bank Bldg., Oklahoma City.

Okl., Goodwell.—Goodwell School Dist., L. A. Averett, Clerk, will erect \$33,000 school; brick; stone trim; pitch and gravel roof; wood floors; M. C. Parker, Archt., Amarillo, Tex. (Lately noted.)

Okl., Lambert.—Board of Education, E. R. McDaniel, Secy., will erect \$35,000 addition to school; 2 stories and basement; 50x62 ft.; brick; stone trim; composition roof; S. S. Voigt, Archt., Fourth Natl. Bank Bldg., Wichita, Kans.

Okl., Muskogee.—Board of Education plans to sell \$250,000 bonds to erect buildings and improve present structures.

Okl., Onapa.—Board of Education, Sam Shop, Secy., will erect school; 1 story and basement; 68x78 ft.; brick; stone trim; composition roof; H. O. Valeur & Co., Archt., Muskogee.

Okl., Waynoka.—Board of Education will erect \$60,000 school; 1 story and basement; 118x200 ft.; brick; stone trim; W. V. Street, Archt., Caldwell-Murdock Bldg., Wichita, Kans.

S. C., Columbia.—University of South Carolina, Dr. W. S. Currell, Prest., will receive bids until June 1 for renovating following dormitories: Elliott, Pinckney, Harper and Le-gare and for repairing and painting professors' residences on campus; work to consist of following items: Carpentry, mill work, builders' hardware, plumbing and plumbing fixtures, paint and painting, plaster and plastering, brick work, tin work (gutters), roofing (built up roofing and composition roll roofing); bids will be received for furnishing materials and for labor as a whole or as individual items; also bids for furnishing any or all of materials exclusive of work; and also for doing any or all work incident to use of materials; plans and specifications at Room 209 Le Conte College, University of South Carolina.

S. C., Great Falls.—Republic Cotton Mills will erect 4-room addition to graded school.

S. C., Landrum.—Landrum School Dist. No. 45 will erect school; cost \$20,000; bonds voted; M. L. Nash, J. R. Mallory, B. F. Thompson and others, Trustees.

Tex., Comanche.—City Council ordered election June 4 on \$110,000 bonds to erect high school to cost \$100,000 and expend \$10,000 for improvements to schools. Address School Board.

Tenn., Deschard.—Deschard School Dist. voted \$20,000 bonds to erect public and high schools. Address Board of Education. (Lately noted.)

Tenn., Mt. Pleasant.—City votes June 7 on \$25,000 bonds to erect school. Address Board of Education. (Lately noted.)

Tenn., Newport.—City Board of Education will erect 2 schools; cost \$50,000.

Tex., Eastland.—Eastland Independent School Dist. voted \$50,000 bonds to improve schools. Address Dist. School Trustees. (Lately noted.)

Tex., Fredericksburg.—School Dist. votes June 1 on \$75,000 bonds to erect school building. Address Board of Education.

Tex., Graham.—School Board will erect 2-story brick school; 50x80 ft.; 11 rooms, auditorium and basement; brick; Barrett specification roof; wood floors; hot air heat; electric lights; cost \$45,000; bids opened in June. Address T. J. Galbraith, Archt., Dallas. (Lately noted.)

Tex., Hico.—Hico County Line Independent School Dist. will erect 3-story school and remodel 2-story structure; bids opened May 24; plans and specifications at office P. G. Silber & Co., Archts., 331 Bedell Bldg., San Antonio.

Tex., Ladonia.—City voted \$100,000 bonds to include \$50,000 for school, \$35,000 for sewerage system and \$15,000 for extension of waterworks system. Address The Mayor. (Lately noted.)

Va., Kenbridge.—School Trustees, C. S. Bagley, Clerk, will receive bids June 15 to erect 16-room high school; 2 stories and basement; 130x60 ft.; brick; cost \$60,000; plans and specifications at office of Mr. Bagley, Kenbridge, and C. M. Robinson, Archt., Times-Dispatch Bldg., Richmond. (Lately noted.)

Va., Norfolk.—City School Board, E. L. Myers, Chrmn., Bankers Trust Bldg., will receive separate bids until June 21 to erect schools as follows: (a) Eastern Junior High School; Peebles & Ferguson, Archts., Law Bldg. (b) Western Junior High School; Calrow, Wrenn & Tazewell, Archts., Monroe Bldg.; plans and specifications at office respective architects after May 23. (Previously noted.)

Va., Portlock.—Norfolk County School Board, Jas. Hurst, Supt., 149 Granby St., Norfolk, will erect \$30,000 grade school; 2 stories and basement; 54x72 ft.; brick; Chas. M. Robinson, Archt., Times-Dispatch Bldg., Richmond.

Va., Staunton.—Staunton Military Academy, W. S. Morris, Pur. Agt., Kable Station, Staunton, will erect 22x45 ft. addition to infirmary; 2 stories; install baths and toilets; also remodel portion of heating plant; install 150 H. P. boiler; cost \$15,000 to \$20,000.

W. Va., Birch.—School Board will erect \$40,000 school; L. J. Dean, Archt., Foster Bldg., Huntington.

W. Va., Cairo.—Board of Education will erect \$10,000 gymnasium; 1 story; 80x80 ft.; frame; S. W. Ford, Archt., Latseller Bldg., Clarksburg.

W. Va., Chattooy.—School Board will erect \$50,000 semi-fireproof high school; L. J. Dean, Archt., Foster Bldg., Huntington.

W. Va., Huntington.—Board of Education, Clarence L. Wright, Supt., rejected bids to erect South Junior High School and is considering building by piece-work on percentage basis; Meanor & Handloser, Archts., R. & P. Bldg. (Lately noted.)

W. Va., Nolan.—School Board will erect school building; 6 rooms; cost \$22,000; L. J. Dean, Archt., Foster Bldg., Huntington.

W. Va., Ripley.—School Board will erect \$45,000 school; 3 stories; fireproof; L. J. Dean, Archt., Foster Bldg., Huntington.

Stores.

Ark., Little Rock.—Boyle Realty Co., Jno. F. Boyle, Prest., will erect building on W. Capitol Ave., between Center and Spring Sts.; contain 4 store rooms, each 22x140 ft.

Ark., Pine Bluff.—Geo. Crowe will rebuild grocery store noted burned.

D. C., Washington.—W. B. Putnam will erect building at 2955 Carlton St.; cost \$12,000.

D. C., Washington.—C. L. & F. W. Wenger will erect building at 5607 16th St.; cost \$18,000.

Fla., Daytona.—H. W. Hoover will remodel and enlarge store building.

Fla., Jacksonville.—Akers & Cody, Atlanta, J. B. Dye, of Osceola Fertilizer Co., Jacksonville, Agent, will erect building at Hogan and Adams St.; foundation for 10-story structure; 2 or 3 stories to be erected at present.

Fla., Miami.—J. P. Conrad will erect store and apartment building at Avenue F and 8th St.; 2 stories; 25x50 ft.; concrete blocks coated with waterproof stucco; concrete and wood floors.

Fla., Tampa.—Gavino Gutierrez will erect 1-story brick building on Franklin St.; 88x73 ft.; ceiling sufficiently high to permit mezzanine floor; walls and foundation to support 1 or 2 additional stories; R. B. Gambier, Archt.

Ga., Reynolds.—A. M. Carter will erect building for 3 stores. (See Machinery Wanted—Store Fronts.)

Mo., St. Louis.—G. C. Gossman, 6145 Bartmer Ave., will erect 2-story building; brick and steel; cost \$75,000. (J. M. Dunham, 1404 Chemical Bldg., lately incorrectly noted as architect.)

Okla., Muskogee.—Wm. Eicholtz, Prest. Street-Eicholtz Furniture Co., will erect 6-story store building on W. Broadway.

Okla., Tulsa.—J. B. Foster will expend \$10,000 to repair building at 1723 S. Cheyenne St.

S. C., Great Falls.—W. B. Gladden, Richburg, will erect store building; 50x100 ft.; brick; tin roof; concrete floors; metal ceilings; vaults; bids opened June 1. (Lately noted.)

Tenn., Memphis.—McLemore Avenue Realty Co. will remodel 2-story building; 5 stories on first floor; offices above; 24x146 ft.; brick; ornamental terra cotta fronts; interior tile; composition roof; concrete and hardwood floors; vault lights; steam heat; electric lights; construction by owner. Address Anker F. Hansen, Archt., McCall Bldg.

Tex., Dallas.—Tom Camp will erect 2-story building at Young and Akard Sts.; cost \$30,000.

Tex., McKinney.—J. P. Crouch & Co. will erect building to replace burned structure.

Va., Norfolk.—E. Griffith Dodson will erect store and office building; 127x140 ft.; frame hollow fireproof tile and brick; tar and gravel roof; cement and wood floors; interior tile; ornamental terra cotta; metal doors; wire glass; ventilators; electric lights; freight elevator; bids opened about May 29; separate bids for steam heat; Benj. F. Mitchell, Archt., 500 Seaboard Bank Bldg.; contractors estimating: Nugent-Price, R. R. Richardson & Co., Inc., Johnson Constr. Co., Baker & Brinkley, W. T. Gregory, Nichols & Lindermann, Fanning & Quinn, J. Y. Gooch & Co. and Nichols & Heaslop.

Va., Roanoke.—Geo. W. Payne will erect brick store on Church Ave.; cost \$12,000.

Va., Roanoke.—Jos. Spiegel will expend \$10,000 to remodel store at 175 Campbell Ave.

W. Va., Bluefield.—E. L. Bailey will construct 4-story building at Mercer St. and Bluefield Ave.; brick; several store rooms, garage and salesroom.

W. Va., Fairmont.—Kelley Music Co. will erect 3 or 4-story fireproof building.

W. Va., Fairmont.—C. E. Hutchinson is reported to erect 4-story business building on Washington St.; Jones & Nuzum, Archts.

W. Va., Keystone.—J. Frank Maynard, Coal & Coke Bldg., Bluefield, will erect brick building; Garry & Sheffy, Archts., Bluefield.

Theaters.

Fla., Pensacola.—Majestic Theater, B. N. Bickert, Mgr., will remodel theater; erect balcony and stage; install typhoon cooling system and lighting system; remodel front, etc.; Mr. Bickert will supervise work. (Lately noted.)

Fla., Winter Garden.—E. C. Bray will erect theater and store building; cost \$14,000; former, 35x120 ft.; latter, 25x120 ft.; brick; built up roof; cement floors; metal ceilings; wire glass; ventilators; J. C. Hanner & Co., Contrs., Orlando; all material purchased. (Lately noted at Winter Haven.)

Ky., Louisville.—Edw. M. Flexner will remodel Strand Theater; cost \$100,000; Joseph & Joseph, Archts. (Lately noted.)

Tex., Dallas.—W. T. Alcorn will erect moving picture theater at 5439 E. Grand St.; brick; cost \$10,000.

Tex., Dallas.—Dr. G. M. Grisby will erect \$25,000 motion picture theater at Elm St. and Haskell Ave.

W. Va., Fairmont.—West Virginia Amusement Co., S. D. Brady, C. D. Robinson, J. E. Watson, Jr., and others, will erect theater on Adams St.; 3 stories; 50x70 ft.; seating capacity 1400; fireproof; brick; reinforced steel

and concrete; Fredk. W. Elliott, Archt., Chamber of Commerce Bldg., Columbus, O.

W. Va., Welch.—American Theater Co., incpd. with \$100,000 capital by J. W. Blakeley, E. W. Cullen, A. H. Schuneman and others, Charleston.

Warehouses.

Ga., Ashburn.—Board of Trade is promoting erection of potato warehouse.

Ga., Savannah.—Artley Co. will erect warehouse to be occupied by Pittsburgh Plate Glass Co.; 100x150 ft.; 1 story; brick and frame; wood floors; plans and construction by owner; all material purchased. (Lately noted.)

N. C., Asheville.—Golden Grain Distributing Co., G. Leavitt, Mgr., will erect warehouse on Biltmore Ave.

N. C., Raleigh.—Raleigh Tobacco Warehouse Co., organized with \$40,000 capital and will erect 2 tobacco warehouses; frame; composition roof; concrete floors; electric lights; bids opened about May 20; Jas. A. Salter, Archt., Address S. Brown Shepherd, Prest. (Lately noted.)

N. C., Wilmington.—Corbett Co. will erect storage warehouse on Nutt St.; 180x45 ft.; concrete and steel; Morton & Cox, Contrs.

Va., Newport News.—M. L. Weger & Sons, Jefferson Ave., will erect \$20,000 warehouse; 3 stories; 25x100 ft.; brick; mill construction; A. Byron Williams, Archt., 227 28th St.

BUILDING CONTRACTS AWARDED

Apartment-Houses.

Fla., St. Petersburg.—Lytton & Zinn will erect \$10,000 apartment and store building lately noted; 36x84 ft.; brick and stucco; cement and wood floors; gas heat; electric lights; hollow fireproof tile; metal ceilings; ornamental terra cotta; interior tile; H. E. Wendell, Archt.; construction by owners. (See Machinery Wanted—Ceilings; Terra Cotta; Tile.)

Md., Baltimore.—Israel Silberstein, Equitable Bldg., will erect apartment house at Eutaw Pl. and Brooks Lane; 70x115 ft.; 4 stories and basement; brick and reinforced concrete; asbestos shingle roof; hardwood floors; steam heat; electric lighting; cost, \$220,000; Geo. R. Callis, Jr., Archt., American Bldg.; Realty & Construction Corp., Contr., Equitable Bldg.

Tex., Houston.—Tom Randolph, San Jacinto Trust Co., will erect \$14,000 apartment house; 36.8x43.3 ft.; brick veneer; composition slate roof; pine and oak floors; Arcola heating plant; J. W. Northrop, Jr., Archt., Beatty Bldg.; Geo. Brown, Contr., 1103 Union Nat'l. Bank. (Lately noted.)

Tex., Waco.—R. T. Dennis will erect \$100,000 apartment house at 1923 Austin St.; 2 stories and basement; 117 ft. front; 12 suites; Milton W. Scott, Archt.; J. M. Bush, Contr. (Lately noted.)

Va., Norfolk.—Simon Chapel will erect \$19,500 apartment and store building at 36th St. and Llewellyn Ave.; 2 stories; 45x70 ft.; brick; gravel roof; rift pine floors; hot water heat, \$1,650; electric lights, \$250; 3 apartments; store on first floor; M. H. Glick, Archt.; Glick & Goldbery Co., Inc., Contrs.

Association and Fraternal.

Va., Danville.—Masonic Bldg. Corp., Col. A. B. Carrington, Chrmn. Comm., will erect 10-story Masonic Temple and office building; cost, about \$500,000; 66x140 ft.; reinforced concrete, terra cotta trim; first floor, stores; seven stories above, 168 offices; 2 top floors for Masonic rooms; auditorium, banquet rooms,

mezzanine, balconies, etc.; F. F. Farris, Archt., Wheeling, W. Va.; Parks & Co., Contrs., Chattanooga, Tenn. (Lately noted.)

Bank and Office.

N. C., Wilmington.—O. T. Wallace will erect office building at 3rd and Princess Sts. to be leased by Maj. Jos. W. Little, Prest. of Wilmington Printing Co. and Progressive Bldg. and Loan Association; Jas. B. Lynch, Archt.; Fixter Constr. Co., Contr.

Tenn., Knoxville.—American Natl. Bank, Robt. S. Young, Prest., 250 S. Gay St., will expend \$25,000 to remodel building at Gay and Commerce Sts.; 2 stories; Manley & Young, Archts., Maple Hurst Park; A. R. McMurray, Contr., Burwell Bldg. (Lately noted.)

Tex., Houston.—Federal Reserve Bank of Dallas will erect \$350,000 branch building at Texas Ave. and Caroline St.; 3 stories, foundation for 2 additional stories; 80x25 ft.; fireproof; steel and reinforced concrete; Carthage stone base; composition roof; marble, cork, tile and composition floors; steam heat; electric elevators; hollow fireproof tile; ornamental terra cotta; metal doors; vaults; wire glass; first floor interior, marble and bronze; Sanguinet, Staats & Gottlieb, Archts.; American Construction Co., Contr., both Houston. (Lately noted.)

Churches.

Md., Baltimore.—St. Luke's Reformed Church, Baltimore and Pulaski Sts., will complete auditorium; cost, \$10,000; Chas. L. Stockhauser Co., Inc., Contr., Gay and Water Sts.

S. C., Great Falls.—Baptist Church will erect \$50,000 building; brick; W. P. Holt, Contr., Spartanburg.

Tenn., Memphis.—Linden Ave. Christian Church will remodel church and erect Sunday school building, previously noted; cost, \$78,287; Sunday school, 45x55 ft.; 3 stories and basement; brick; composition roof; wood, terrazzo and linotype floors; steam heat, \$6,500; Anker F. Hansen, Archt., 612 McCall Bldg.; A. A.

Munsell, Contr., 811 McCall Bldg. (See Machinery Wanted—Art Glass; Plumbing; Organ.)

City and County

Fla., Miami.—City Hall.—City, W. E. Brown, committeeman on public buildings, will remodel city hall; plans by City Engr. Davidson and Mr. Brown; Beach Constr. Co., Contr. (Previously noted.)

Md., Baltimore.—Library.—Enoch Pratt Free Library, Dr. Bernard C. Steiner, Librarian, Mulberry St., Nr. Cathedral; will erect branch library No. 19 at 606-10 S. Ann St.; brick, stone trim: 40x75 ft.; cost, \$25,000; Wm. W. Emmart, Archt., Union Trust Bldg.; R. B. Mason, Contr., 308 W. Madison St.

Courthouses.

Ky., Harlan.—Harlan County Building Commissioners, G. W. Howard, Clk., will erect \$200,000 courthouse; 3 stories and basement; brick: 100x100 ft.; C. C. & E. A. Weber, Archts., Miller Bldg., Cincinnati, O.; E. G. Holladay Co., Contrs., Nashville, Tenn. (Lately noted.)

La., Baton Rouge.—Police Jury, Jos. Gabelin, Prest., Bank of Baton Rouge, will erect courthouse and jail building; tile roof; hardwood and concrete floors; ornamental terra cotta; safes; interior tile; vaults; wire glass; mail chutes; ventilators; Edw. F. Neild, Archt., Shreveport; Caldwell Bros., New Orleans, Contrs., at \$401,000. (Lately noted.)

Dwellings.

D. C., Washington.—Gist Blair will remodel residence at 17th St. and Penna. Ave.; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Jas. L. Parsons, Contr., Southern Bldg.

Ga., Augusta.—Mrs. L. C. Maxwell will erect 30 to 40 dwellings lately noted; 6 and 7 rooms; frame and hollow tile; asphalt shingle roofs; hollow fireproof tile; hardwood floors; interior tile; Willis Irvin, Archt.; construction by day labor under supervision of Blanchard & Calhoun, Agts. (See Machinery Wanted—Lighting Fixtures; Mantels, Grates.)

La., New Orleans.—Andrew Fitzpatrick will erect number of dwellings in connection with development of 100 acres in Jefferson Parish; 4 rooms; frame; composition roof; wood floors; plaster board; Paul G. Charbonnet, Archt., Contr. (Lately noted.)

Md., Baltimore.—E. H. Koester, 648 W. Lexington St., will erect \$15,000 residence on Charles St., nr. Warrenton Rd.; 2½ stories; brick; Gladfelter & Chambers, Contrs., 36th Ct. and Roland Ave.

Mo., St. Louis.—Paul Jones Realty Co., will erect 40 bungalows in Virginia Park; frame; cost, \$6,000 each; 32x40 ft.; slate, asbestos, shingle and rubberoid roofs; hardwood floors; hot water, hot air and pipeless furnace heat; electric lights; hollow fireproof tile; plaster board; interior tile; Geo. W. Pipe, Archt.; Chas. W. Lund and J. W. Higbee, Contrs., all 104 N. 8th St. (Lately noted.)

Tenn., Knoxville.—Dr. R. L. Bellamy will erect \$15,000 residence at Hill Ave. and Maplehurst St.; stone; 6 rooms and basement; French tile roof; hardwood, concrete and tile floors; hot water heat; electric lights; hollow fireproof tile; Thomas Brown, Archt., Holston Bldg.; J. Gordon Powers Constr. Co., Contr. (Lately noted.)

Tenn., Knoxville.—Holston Mfg. Co., will erect 7 3-room dwellings and 2-story frame boarding house; H. E. Rogers, Contr.

Tex., Dallas.—Sacred Heart Cathedral, Rev. B. H. Diamond, Rector, will erect \$50,000 rectory; 2 stories and basement; brick, stone trim; red clay tile roof; garage for 3 cars; J. Ed. Overbeck, Archt.; Otto Susen, Contr. (Lately noted.)

Va., Norton.—R. E. Radlef will erect \$10,000 residence; 2 stories; 40x46 ft.; plans by owners; J. F. Mullins, Contr., Big Stone Gap.

Hospitals, Sanitariums, Etc.

Tex., Dallas.—St. Paul's Sanitarium will erect \$200,000 nurses' home at San Jacinto and Hill Sts.; 96x153 ft.; 3 stories; brick and reinforced concrete; H shape; J. Ed. Overbeck, Archt.; H. J. Curtis, Contr., 1209 Main St. (Lately noted.)

Tex., Lubbock.—West Texas Hospital Association will erect \$90,000 building; 3 stories; 50x105 ft.; fireproof; composition gravel roof; cement and tile floors; hollow fireproof tile; ornamental terra cotta; interior tile; ventilators; steam heat, \$13,000; electric lights, \$4,000; electric elevators, \$4,000; Harry T. Phelps, San Antonio, and John Gelin, Lubbock, Archts.; John Gelin, Contr. (Lately noted.)

Railway Stations, Sheds, Etc.

Ky., Paris.—Louisville & Nashville R. R. Co., Wm. H. Courtenay, Ch. Engr., will erect boiler house; 125x150 ft.; 2 stories; brick; cost \$100,000; Geo. H. Rommel Co., Contr., Louisville. (Lately noted.)

Schools.

Ga., Brunswick.—Board of Education will erect negro school; cost \$40,000 to \$45,000; E. Merritt, Archt.-Contr.; also erect Technical High School.

Miss., Oxford.—State Bond Improvement Commission, Jackson, will construct 3 men's dormitories, dining rooms and dormitory addition to Ricks Hall for women at University of Mississippi; Theo. C. Link, Supervising Archt., Director, Public Works, Box 636, Jackson; Algernon Blair, Montgomery, Ala., contr., at \$187,996. (Lately noted.)

Mo., Fayette.—Howard Payne College will erect \$75,000 dormitory; 3 stories and basement; brick and stone; Ben F. Elliott, Archt., Mexico; Murch Bros. Contr. Co., Contr., St. Louis. (Lately noted.)

Okla., Altus.—Board of Education, Maud L. Kimball, Secy., will erect \$60,000 high school; 2 stories and basement; brick and stone; composition roof; A. F. Stewart & Co., Archts., First Natl. Bank Bldg., Oklahoma City; E. W. Britton, Contr., Altus. (Lately noted.)

Okla., Caddo.—Board of Education, S. Shaw, Clk., will erect \$50,000 school; 2 stories and basement; brick; stone trim; Jewell Hicks, Archt., 19½ Main St., Oklahoma City; J. J. Rooney, Contr., Muskogee. (Lately noted.)

Okla., Piedmont.—Board of Education will erect \$50,000 school; 2 stories and basement; 60x150 ft.; Monnott & Reid, Archts., Oklahoma City; Fasher Construction Co., Contr., Piedmont.

Okla., Muskogee.—Sacred Heart Catholic Church, Father Van der Grinten in charge, will erect \$30,000 parochial school; 2 stories and basement; 58x73 ft.; brick; M. T. Hardin, Archt.; J. J. Rooney, Contr. (Lately noted.)

S. C., Cedar Springs.—South Carolina School for Deaf and Blind, N. F. Walker, Supt., will erect auditorium and dining hall annex to Administration Building; cost \$66,645; Edwards & Sayward, Archts., Chamber of Commerce Bldg.; Pittman Constr. Co., Contr., both Atlanta, Ga. (Lately noted.)

Tenn., Jackson.—City Board of Education, C. B. Ignais, Supt., will erect \$30,000 grade school at Whitehall and Jackson Sts.; 1 story; 60x120 ft.; 8 class rooms; brick; R. A. Heavner, Archt.; Jaynes & Gaba, Contrs.; Curtis Plumbing Co., heating and plumbing. (Lately noted.)

Tex., Dallas.—Board of Education will erect \$111,153 ward school; 2 stories; 180x100 ft.; concrete and brick; slate and composition roof; Mastic linoleum, cement and wood floors; Wm. B. Ittner, Archt., Board of Education Bldg., St. Louis, Address Geo. W. Hewitt, Contr., 224 Slaughter Bldg., Dallas. (Lately noted.)

Tex., Wichita Falls.—School Board will erect Washington School for negroes; cost \$40,000; J. C. Jopling & Son, Contrs.

W. Va., Kingwood.—Board of Education, C. C. Pierce, Prest., will erect school; cost \$118,150; 2 stories and basement; 122x114 ft.; hollow fireproof tile; semi-fireproof or fireproof; composition roof; cement and wood floors; vapor heat; electric lights; ventilators; Richard M. Bates, Jr., Archt., First Natl. Bank Bldg., Huntington; Foreman & Putman, Contrs., Marietta, O. (Lately noted.)

W. Va., Ravenswood.—Board of Education, F. C. Harpole, Prest., will erect \$60,000 high school; 2 stories; brick and steel; reinforced concrete floors; Richard M. Bates, Jr., Archt., First Natl. Bank, Huntington; M. S. Boggs, Contr., Spencer. (Lately noted.)

Stores.

Ala., Jasper.—S. E. Lynn will erect \$18,000 building; 2 stories; 28x105 ft.; brick; Wilson Construction Co., Contr.

Ala., Jasper.—Jasper Land Co. will erect building; 84x105 ft.; 1 story; brick; Wilson Construction Co., Contr.

Ala., Tuscaloosa.—Rosenau Bros. will erect 4 stores on Greensboro Ave.; 20x70 ft.; 1 story; M. L. Waddell, Contr.

Okla., Ponca City.—Dawson Bros. will erect 2-story concrete business building on Grand Ave.; Dick Sherboon, Contr.

Warehouses.

Tex., Waco.—Weathered Transfer & Storage Co., Gus K. Weathered, Prest., 13th and Mary Sts., will erect warehouse; 70x100 ft.; 2 stories; will fireproof 2-story building; 70x280 ft.; E. Melver Ross, Archt.; contracts let.

W. Va., Huntington.—Banks Supply House, Thos. F. Bailey, Prest., will erect \$50,000 fireproof warehouse; 60x140 ft.; 3 stories and basement; brick and stone; composition roof; maple floors; sprinkler system; Meador & Handloser, Archts., R. & P. Bldg.; Henry Persun, Contr.; all material purchased. (Lately noted.)

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Addressograph Outfit.—White Oak Corp., Knoxville, Tenn.—Second-hand addressograph outfit, capacity 15,000 names.

Agitators.—Watson-Hall Mfg. Co., K. D. C. Watson, Prest.-Mgr., 803 Lackawanna Ave., Jacksonville, Fla.—Motive power agitators to mix cough syrups, and 10 to 20 gals. liniment.

Art Glass.—Anker F. Hansen, 612 McCall Bldg., Memphis, Tenn.—Prices on art glass for church.

Barrel Machinery.—R. S. Maley, New Smyrna, Fla.—Names and addresses mfrs. of machinery to make barrels.

Boiler.—Treasury Dept., Supv. Archt's office, Washington, D. C.—Bids until June 16 to furnish and install brick-set, fire-box, heating boiler in U. S. post office at Newberry, S. C.; plans on file or with Custodian at Newberry.

Boilers.—Stephens Branch Coal Co., Prestonsburg, Ky.—Prices on boilers from 150 to 200 H. P.; steel casing; 125 lb. steam pressure.

Boiler.—Treasury Dept., Supv. Archt's office, Washington, D. C.—Bids until June 15; brick-set, down draft, fire box heating boiler, breeching, stack and hood, etc., in U. S. Post Office, Staunton, Va.; plans on file or with Custodian and Staunton.

Boring Mill.—Norton-Broadway Machinery Co., 238 Broadway, Cincinnati, O.—72-in. single or double head vertical boring mill for rough work.

Brick Plant.—Hugo Chamber of Commerce, W. T. Larrimore, Secy., Hugo, Okla.—Brick plant.

Bricks.—See Building Material.

Bridge Construction.—Randolph County, H. C. Kesling, County Clk., Elkins, W. Va.—Bids until June 7 to build concrete deck girder bridge consisting of three 39x30-ft. span, 16-ft. roadway; plans, etc., with Edward G. Elliott, County Engr., Elkins; Div. Engr., Keyser, W. Va.; and State Road Comsn., Charleston, W. Va.

Bridge Construction.—City, John B. Perrine, Mayor, Valparaiso, Fla.—Bids on 660-ft. bridge over head of Sunset Bay.

Bridge Construction.—Colleton County, P. M. Buckner, Chrmn. County Commrs., Walterboro, S. C.—Bids until May 27 to build 2 reinforced concrete bridges; plans, etc., on file with Chrmn., Walterboro, and State Highway Engr., Columbia, S. C.

Bridge Construction.—Edgefield County, A. A. Edmunds, Supvr., Edgefield, S. C.—Bids until June 1 to build steel bridge across Mill Creek on Marin Town road including 2 concrete piers, 2 concrete abutments and approaches and three 40-ft. spans; plans, etc., on file.

Bridge Construction.—Kanawha County, R. N. Moulton, Clk. County Court, Charleston, W. Va.—Bids until June 16 to build steel highway bridge at mouth of Paint Creek; plans, etc., with P. J. Walsh, and State Roads Comsn.; both Charleston.

Bridge Construction.—Nueces County, F. A. Tompkins, Auditor, Corpus Christi, Tex.—Bids until May 27 to build 19 bridges and culverts in Precinct No. 4; 112,341 lbs. reinforcing steel; plans, etc., with O. N. Powell, County Engr.

Bridge Construction.—Clay County, Geo. S. Jones, Clk. County Court, Manchester, Ky.—Bids until June 1 to build bridge across South Fork of Kentucky river; concrete or steel.

Bridge Construction.—Nueces County, F. A. Tompkins, County Auditor, Corpus Christi, Tex.—Bids until May 27 to build bridge 225-ft. long over Agua Dulce Creek consisting of ten 20-ft. clear spans of reinforced concrete slab; 134,640 lbs. reinforcing steel; plans, etc., with O. N. Powell, County Engr.

Bridge Construction.—City, Herbert Gillis, Clk., Hattiesburg, Miss.—Bids until June 10 to complete steel bridge across Leaf river; plans, etc., with Chancery Clk.

Bridge Construction.—Palm Beach County Commrs., West Palm Beach, Fla.—Bids until June 17 to complete bridge over Lake Worth from West Palm Beach to Palm Beach; 1,885-ft. long including 857 lin. ft. embankment, 854 lin. ft. reinforced concrete arch construction with piers and abutments and steel swing bridge 174-ft. long; plans, etc., with R. F. Goodman, County Engr., West Palm Beach, and Harrington, Howard & Ash, Consult. Engrs., Kansas City, Mo., and Jacksonville, Fla.

Building Material.—Paul Rubber Co., 310 Wallace Bldg., Salisbury, N. C.—Timber, lumber, bricks, steel sash, cement, etc.

Building Materials (Brick and Concrete).—Wm. M. Curry, 220 Walton Ave., Lexington, Ky.—Prices on concrete and brick building materials or agency for this territory.

Burners (Flash).—Glades Construction Co., S. Arthur Davies, Mgr., Moore Haven, Fla.—Portable flash burners.

Canvas Covering.—T. J. Ray, Newland, N. C.—Canvas or other suitable covering for brick yard used for protecting bricks from rain; to be easily handled.

Cars (Acid Tank).—H. A. Stilwell, 707 Equitable Bldg., Baltimore, Md.—20 acid tank cars, M. C. B. throughout, 7,000 gal. capacity of tank; 100,000 lbs. truck capacity; state specifications, price, etc.

Cars (Mine).—Stephens Branch Coal Co., Prestonsburg, Ky.—Prices on mine cars 42 in. gauge; wheel base, 24 in.; wheels, 14 in.; 33 in. high; capacity 2½ tons.

Cartons, Labels, etc.—See Laboratory Equipment.

Ceilings (Metal).—Lytton & Zinn, St. Petersburg, Fla.—Prices on metal ceilings for \$10,000 apartment and store building.

Cement, etc.—See Building Material.

Cement.—J. B. McCrary Co., St. Martinsville, La.—Prices on cement in carload lots.

Cement (Portland).—U. S. Engr. office, Wheeling, W. Va.—Bids until June 14 to furnish and deliver 20,000 bbls. American Portland cement for dam No. 27, Ohio River; information on application.

Cement (Portland).—U. S. Engr. Office, 405 Custom House, Cincinnati, O.—Bids until June 8 to furnish and deliver 50,000 bbls. American Portland cement for Ohio River dams Nos. 34, 36 and 38.

Cement.—Wm. M. Curry, 220 Walton Ave., Lexington, Ky.—Names and addresses mfrs. of cement.

Clips (Steel Spring).—J. G. Stokes, Box 125, Burgaw, N. C.—To contract for mfr. of specially designed spring steel clips in wholesale lots.

Crane (Locomotive).—Galley-Myers Co., LaGrange, Tenn.—25-ton standard gauge, double truck locomotive crane with 50 to 65-ft. boom and 1½ or 2 yd. clam shell bucket.

Crate (Egg).—Harvard Holding Corp., 610 New Monroe Bldg., Norfolk, Va.—To contract for mfr. metal egg crate.

Creamery Equipment.—Nolensville Co-Operative Creamery Assn., W. S. Greer, Secy.-Treas., Mgr., Nolensville, Tenn.—Bids open for boiler, vats, churns, etc.

Cresosoted Wood.—J. B. McCrary Co., St. Martinsville, La.—Prices on cresosoted wood in carload lots.

Deferrization Plant.—Navy Dept., Bureau of Yards and Docks, Washington, D. C.—Bids until June 8 to install deferrization plant at Naval Air Station, Pensacola, Fla. consisting

of wood aeration tanks, concrete settling basin, concrete filters and clear water reservoir, pump house, valve chamber and coagulant house, steel framing with corrugated siding, together with pumps, piping, valves, fittings, etc.; Spec. 4385; plans on file or with Commandant at Naval Air Station.

Desks.—Board of Trustees, Consolidated High School, Batesburg, S. C.—See School Equipment.

Dredging, etc.—U. S. Engr. office, Custom House, Norfolk, Va.—Bids until June 6 to construct, embankment, earth fill and dredging in Appomattox River, at Petersburg, Va.

Electric Novelties.—P. Alguersuari Monclus, Calle Furull No. 1, Sabadell, Spain.—Names and addresses mfrs. of electric novelties and supplies for hotels and private buildings.

Electric Light Plant Equipment.—City of Martin, Tenn., Geo. P. Hurt, Mayor.—Bids until June 9 to construct power house; install 2 A C generators direct connected to non-condensing uniflow, or non-releasing Corliss engines; 2 water tube boilers; heater and feed pumps; switch board; piping; chimney; elevated tank; motor-driven centrifugal pump; resetting air compressor; street lighting material; transformers, etc.; plans, etc., from Frank L. Wilcox, Consult. Engr., Chemical Bldg., St. Louis, Mo.

Elevator (Grain).—Jas. M. Patterson, Alledale, S. C. To correspond with mfrs. of small grain elevator.

Engine (Fuel Oil).—A. G. Moffat, Secy., Sewerage and Water Board, New Orleans, La.—Bids until June 21 to furnish, deliver and erect 200 H. P. fuel oil engine.

Engine.—Hackley Morrison Co., 204 Moore Bldg., Richmond, Va.—80 H. P. Corliss engine.

Engines.—John G. Duncan Co., 101 E. Jackson St., Knoxville, Tenn.—Dealers prices on dinkey engines with cars suitable for working in connection with steam shovel, or hauling materials which are handled with steam shovel, in grading, excavating and railroad work; quote 36-in. or any other gauge available for quick delivery.

Fence, etc.—Navy Dept., Bureau of Yards and Docks, Washington, D. C.—Bids until June 8; fence with concrete foundations, steel posts and top rail, wire fabric, gates and necessary accessory construction at Naval Magazine (Bellevue), Washington, D. C. Spec. 4393 on file.

Ferry.—John B. Perrine, Mayor, of Valparaiso, Fla.—Invites bids on construction of ferry across Valparaiso Bay.

Fertilizer Plant Machinery.—Home Guano Co., M. L. Hanahan, Treas. and Gen. Mgr., Dothan, Ala.—Shafting, post hangers, bearings, couplings, collars, pulleys, belts, bevel gears, sheaves, spur gear, Hyatt Roller bearings, No. 111 elevator chain, 14x7 malleable iron buckets, rubber belting.

Gasoline.—G. H. Riddle, Burlington, N. C.—To purchase gasoline in car lots in drums.

Grader.—See Road Building Machinery.

Graders.—Oglesby-Mitchell Construction Co., Cleburne, Tex.—Prices on road graders.

Grates.—Willis Irvin, Augusta, Ga.—Prices on grates for dwellings.

Handles (Casket).—L. C. Williams, Crystal River, Fla.—Names and addresses mfrs. of casket handles.

Hay, Oats, Etc.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until June 11 to furnish hay, oats and straw. Blank forms and information (Circular 1450) on application to offices of Panama Canal, Asst. Purchasing Agts. at New York, New Orleans, Fort Mason, San Francisco; U. S. Eng. offices throughout country.

In writing to the parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Ice Machine.—H. E. Beard, Camden, S. C.—Names and addresses mfrs. of machinery to make ice, 15 to 25-ton capacity; second hand, if satisfactory.

Laboratory Equipment.—Watson-Hall Mfg. Co., K. D. C. Watson, Prest.-Mgr., 803 Lackawanna Ave., Jacksonville, Fla.—Cartons, shipping cases, addressing for boxes and parcels, labels, bottles, ointment jars, truck, heavy and light scales, filter paper, corks, etc.

Lighting Fixtures.—Willis Irvin, Augusta, Ga.—Prices on lighting fixtures for dwellings.

Lighting Fixtures.—H. M. Miller, Roanoke, Va.—Prices on lighting fixtures for bank building.

Lime (Rock Building).—North State Covering Co., Beaufort, N. C.—Names and addresses mfrs. of rock building lime in Virginia, Maryland or North Carolina; delivery to Eastern, N. C.

Locomotive.—Pennsylvania Equipment Co., 1420 Chesnut St., Philadelphia, Pa.—Standard gauge 4-wheel saddle tank locomotive, 7-ft. wheel base, weight about 85,000 lbs.

Locomotive.—Hice-Giddens Lumber Co., Ansley, Ala.—Second-hand 10 to 15-ton Shay geared locomotive, 36-in. gauge, 145 to 160 lbs. steam pressure.

Lumber.—See Building Material.

Mantels.—Wilson Mantel & Tile Co., F. J. Roberts, Propr., Wilson, N. C.—Names and addresses mfrs. of high grade mantels.

Mantels.—Willis Irvin, Augusta, Ga.—Prices on mantels for dwellings.

Mattress Plant Machinery.—Ozark Mattress & Mfg. Co., L. A. Wrightsman, 818 Robberson Ave., Springfield, Mo.—Bids until July 1 for filling machine and 2 Garnett machines.

Metal Ceiling.—P. B. Traweck, Tuscaloosa, Ala.; metal ceiling for school building.

Miscellaneous Supplies.—Fernandez-Avello & Co., Mendoza 5477, Buenos Aires, S. A.—To represent mfrs. of knit goods, undershirts, stockings, sweaters; cotton and leather gloves; hardware; leather articles; suspenders; silk and cotton ribbons; linings and inter-linings for tailors; cloth, etc.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until May 31 to furnish: steel, rivets, bolts, nails, screws, washers, detonators, hose, pipe, gaskets, packing, glass, brushes, balls, caning, gauze, Blank forms and information (Circular 2270) on application to offices: Panama Canal; Asst. Purchasing Agents at Fort Mason, San Francisco.

Miscellaneous Supplies.—Jose G. Merino, Box 10153, Mexico, D. F., Mexico.—To represent mfrs. of chalks, crayons, water colors and dyes.

Mixer.—See Road Building Machinery.

Mixers (Concrete).—Oglesby-Mitchell Construction Co., Cleburne, Tex.—Prices on concrete mixers.

Mixing Machines.—Watson-Hall Mfg. Co., K. D. C. Watson, Prest.-Mgr., 803 Lackawanna Ave., Jacksonville, Fla.—Mixing machines for heavy salves, creams, etc.

Motor.—Hackley Morrison Co., 204 Moore Bldg., Richmond, Va.—3 H. P., 3-phase, 60-cycle, 220-volt A. C. motor.

Motor.—Charles Earl Currie & Co., Ashland, Ala.—10 H. P., 3-phase, 60-cycle, 220 or 2,200 volts motor.

Motor-Generator Set.—Hackley Morrison Co., 204 Moore Bldg., Richmond, Va.—Motor-generator, about 7½ K W, 3-phase, 60-cycle, 220-volt motor 220-volt D. C. generator; second hand; first class condition.

Motor.—Edwards & Lassiter, Spring Hope, N. C.—Second-hand 40 or 50 H. P. slip ring motor, 60 cycle, 2,300 volts.

Moving Picture Apparatus.—Board of Trustees, Consolidated High School, Batesburg, S. C.—Bids until June 10 for moving picture apparatus.

Office Equipment.—Watson-Hall Mfg. Co., K. D. C. Watson, Prest.-Mgr., 803 Lackawanna Ave., Jacksonville, Fla.—Multigraph or other machine, typewriters, adding machines, safe, filing devices, ledgers, correspondence files, furniture, etc.

Office Fixtures.—H. M. Miller, Roanoke, Va.—Prices on office fixtures.

Organ.—Anker F. Hansen, 612 McCall Bldg., Memphis, Tenn.—Prices on organ for church.

Paving.—Dist. Comrs., 509 Dist. Bldg., Washington, D. C.—Bids until June 6 to construct 30,000 sq. yds. cement sidewalks; Charles W. Kutz, Commr.

Paving.—City, Chas. S. Burt, Clk., Palatka, Fla.—Bids until June 7 to construct 10,000 sq. yds. brick paving; 7,000 lin. ft. concrete curb; plans, etc., on file; John H. Randolph, City Engr.

Paving.—City, John B. Perrine, Mayor, Valparaiso, Fla.—Bids on 100 mi. cement sidewalks and 60 mi. hard-surfaced streets.

Paving.—City, W. E. Estes, Commr.-Clk., Hattiesburg, Miss.—Bids until June 2 to pave Adeline St.; vitrified brick on sand-cement foundation; 7,540 sq. yds. paving, 4,165 lin. ft. curbing; plans, etc., with City Clk.

Paving.—City, H. C. Sistrunk, Clk., Jacksonville, Fla.—Bids until May 31 to construct 12,000 lin. ft. combination curb and gutter; plans, etc., with City Clk., and Geo. F. Young, City Engr.

Pipe.—Elliott, Sholes & Teer, Durham, N. C.—Prices on 1½ in. of 2 and 3 in. pipe.

Power Equipment.—Paul Rubber Co., 310 Wallace Bldg., Salisbury, N. C.—Power equipment for rubber factory.

Planer.—Hice-Giddens Lumber Co., Ansley, Ala.—Second-hand hardwood flooring planer.

Plaster Board.—Claremont Marl Products Co., Claremont, Va.—Names and addresses mfrs. (in the East) of plaster board.

Plumbing.—Anker F. Hansen, 612 McCall Bldg., Memphis, Tenn.—Prices on plumbing for church.

Posts.—Harry L. Roberts, West Mansfield, Ohio.—12 posts, 10-ft. long to be used in barn; prefer second-hand iron such as 8 or 10-in pipe, I beams or other material suitable for strong posts; above junk price.

Press Brake and Squaring Shear.—Box 274, New Orleans, La.—New or used George Ohle Co. or equal power, press brake and squaring shear ¾ capacity, 6 to 10-ft. long.

Pump.—Norton-Broadway Machinery Co., 236 Broadway, Cincinnati, Ohio.—500 gal. per min heavy duty steam pump, to give 800 lbs. pressure; immediate Ohio delivery.

Rails (Relaying).—Stephens Branch Coal Co., Prestonsburg, Ky.—Prices on relaying rails subject to inspection.

Rails.—Hice-Giddens Lumber Co., Ansley, Ala.—To purchase or rent 4 mi. 30 to 35-lb. relay rails.

Refrigerating Plant.—Yannopolis-Cassariss & Co., Stamboul St., 14, Alexandria, Egypt.—Estimates on establishing refrigerating system in warehouse of 100 cu. meters; spec. for storage of beer, 1000 kilograms to be stored daily, capacity of warehouse 50 bbls., temperature of product when stores 25 degrees centigrade, permanent temperature of warehouse 4 to 6 degrees above zero.

Refinery Equipment.—Rose City Petroleum Co., E. B. Fowler, Secy.-Treas., 407 Donaghey Bldg., Little Rock, Ark.—Prices on refinery equipment for 1,000-bbl. capacity plant.

Retaining Wall, Etc.—U. S. Engr. office, Custom House, Norfolk, Va.—Bids until June

13 to construct 4 gun platforms, 16 buildings, reinforced concrete tunnel and retaining walls, 18,500 ft. railroad track at Fort Story, Cape Henry, Va.

Road Building Machinery.—A. C. Buchanan & Son, City National Bank, Temple, Tex.—Prices on 1 to 1½ yd. steam shovel; one sack concrete mixer; Holt Caterpillar or Yuba tractor; 10 or 12 ft. grader; new or second-hand.

Road Construction.—Noxubee County, Jasper Lipscomb, Highway Commr., Macon, Miss.—Bids until June 6 to grade Shuqualan-Gholson road; 5459 cu. yds.; plans, etc., with Chancery Clk.; R. A. Wells, Engr.

Road Construction.—Dept. Highways, State of Tennessee, Nashville, Tenn.—Bids until June 3 to construct 9.91 mi. State Highway No. 16 between Holston river and Mountain City in Johnson and Sullivan counties; Federal Aid Project No. 11; 37,312 sq. yds. broken stone base course; 37,312 sq. yds. waterbound macadam surface course; plans, etc., on file.

Road Construction.—Fayette County, Thos. Boone, Clk., Fayetteville, W. Va.—Bids until June 6 to grade 3 sections of county road from Quinimont to Stone Cliff; 12.5 mi.; specifications, etc., from J. K. McGrath, Road Engr.

Road Construction.—Dept. Highways, State of Tennessee, Nashville, Tenn.—Bids until June 3 to construct 7.20 mi. State Highway No. 3 between Tennessee river and Camden; Benton County; Federal Aid Project No. 9; plans, etc., on file.

Road Construction.—Dept. Highways, State of Tennessee, Nashville, Tenn.—Bids until June 3 to construct 9.94 mi. State Highway No. 8 between Cheatham county line and Burns, Dickson County; Federal Aid Project No. 46; plans, etc., on file.

Road Construction.—Dept. Highways, State of Tennessee, Nashville, Tenn.—Bids until June 3 to construct 8.28 mi. State Highway No. 12 between Dyersburg and Newbern, Dyer County; Federal Aid Project No. 52; plans, etc., on file.

Road Construction.—Montgomery County, Berry E. Clark, Jr., Clk., County Comrs., Rockville, Md.—Bids until May 31 to construct section of highway along old Georgetown road; 11,600 ft.

Road Construction.—Jefferson County Board of Revenue, Birmingham, Ala.—Bids until June 21 to construct 3 mi. Wylam-Edgewater road, Project No. 6; 2 mi. Ensley-Mulga and Do-cena road, Project No. 7; concrete base with bituminous top; 3 mi. Rosedale-Edgewater road, Project No. 32; 2 mi. South highway road, Project No. 34; 5 mi. West highway, Project No. 35; bituminous surface; grade 4 mi. Flat Creek-Praco road, Project No. 26; 6 mi. Bradford-Trafford road, Project No. 27; surface 9 mi. Warrior-Robbins road, Project No. 9; 5 mi. Trussville road, Project No. 14; 5 mi. White Gibson road, Project No. 31; 4 mi. Taylor's Ferry road; plans, etc., with C. J. Rogers, County Highway Engr.

Road Construction.—Hudspeth County, A. E. Polk, County Clk., Sierra Blanca, Tex.—Bids until May 31 to construct 24.82 mi. Highway No. 1; F. A. P. No. 245; 56,798.4 cu. yds. gravel; plans, etc., from Herbert Schroeter, County Engr., and State Highway Dept., Austin, Tex.

Rod Machines.—Carolina Handle Co., Four Oaks, N. C.—Straight rod machines to turn up to 1½-in.

Rollers (Road).—Elliott-Sholes & Teer, Durham, N. C.—Prices on Kelly-Springfield road rollers; second hand.

Salad Oil Plant.—Yannopolis-Cassariss & Co., Stamboul St., 14, Alexandria, Egypt.—Data and prices on plant to produce white

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salad oil, odorless and free from margarine; daily capacity 1 to 2 bbls.

Saws.—Carolina Handle Co., Four Oaks, N. C.—Power feed edgers or gang rip saws.

Scenery (Stage).—Board of Trustees, Consolidated High School, Batesburg, S. C.—Bids until June 10 for stage scenery for school.

School Equipment.—Board of Trustees, Consolidated High School, Batesburg, S. C.—Bids until June 10 for high school equipment to include desks, opera chairs, and furnishings.

Seating.—Board of Trustees, Consolidated High School, Batesburg, S. C.—See School Equipment.

Sewers.—City of Excelsior Springs, Mo., R. T. Stephens, City Atty.—Bids until June 9 to construct sewerage disposal plant; Shockley Engineering Co., Engr., Kansas City, Mo.

Shovel.—See Road Building Machinery.

Shoe String Machinery, etc.—E. S. Yarbrough, Box 236, Henderson, N. C.—Names and addresses mfrs. of mchy. to make shoe strings, also machine to put on the clips.

Shafting.—See Fertilizer Plant Machinery.

Steel Sash.—See Building Material.

Steel (Bar).—Navy Dept., Bureau of Supplies and Accounts, Washington, D. C.—Bids until May 31 to deliver bar steel to Naval Ordnance plant, South Charleston, W. Va.; plans on file or with Supply Officer, Charleston.

Store Fronts.—A. M. Carter, Reynolds, Ga.—Prices on store fronts.

Tanks (Oil).—Watson-Hall Mfg. Co., K. D. C. Watson, Prest.-Mgr., 803 Lackawanna Ave., Jacksonville, Fla.—Oil tanks for kerosene, etc.

Trucks.—John G. Duncan Co., 101 E. Jackson St., Knoxville, Tenn.—Prices on new and second-hand pole road trucks; to put around 4 or 5-in. round pole, 36 or 42-in. ga.

Syrup, Etc.—R. E. Montgomery, Prest., Palestine Oil Mfg. Co., Palestine, Tex.—Names and addresses mfrs. of syrup and starch from sweet potatoes.

Syrup and Starch Machinery.—R. E. Montgomery, Prest., Palestine Oil & Mfg. Co., Palestine, Tex.—Names and addresses mfrs. of machinery to make syrup and starch from sweet potatoes.

Terra Cotta.—Lytton & Zinn, St. Petersburg, Fla.—Prices on ornamental terra cotta.

Textile Machinery.—P. Alguersuari Monclus, Calle Furull No. 1, Sabadell, Spain.—Names and addresses mfrs. of machinery to spin wool and worsted; also looms to mfr. piece goods (woolens and worsteds only) for men and women.

Textile Machinery.—Hugo Chamber of Commerce, W. T. Larrimore, Secy., Hugo, Okla.—Second-hand textile mchy.

Tile.—Lytton & Zinn, St. Petersburg, Fla.—Prices on interior and hollow fireproof tile.

Tile.—P. B. Traweck, Tuscaloosa, Ala.—Tile for school building.

Timber.—See Building Material.

Tractor.—See Road Building Machinery.

Turbine (Steam).—Stephens Branch Coal Co., Prestonsburg, Ky.—Prices on steam turbine, geared or direct connected to D. C. generator—275 volts; 150 to 200 K. W.

Twine Mill.—Hugo Chamber of Commerce, W. T. Larrimore, Secy., Hugo, Okla.—Second-hand yarn or twine mill, good condition.

Typewriter Parts, etc.—Byrd Repair Co., 432 N. St. Mary's St., San Antonio, Tex.—Names and addresses mfrs. of parts for repairing typewriters, adding machines and cash registers.

Vault Door.—H. M. Miller, Roanoke, Va.—Prices on vault door.

Water-Works.—City of St. Petersburg, Fla.

R. E. Ludwig, Director of Public Utilities.—Bids until June 6 to install electrically driven pumping machinery in pumping station; plans, etc., on file.

Water-Works.—City of Valparaiso, Fla., Jno. B. Perrine, Mayor.—Bids on installing water-works.

Weighing Machines.—S. G. Linderbeck, Dist. Passenger Agt., Seaboard Air Line Ry. Co., Jacksonville, Fla.—Names and addresses mfrs. of penny weighing machines.

Well Drilling.—City of Macon, Miss., J. J. Scott, Clk.—Bids until May 30 to drill wells for light and water plant; plans, etc., on file.

Wharf, etc.—John B. Perrine, Mayor of Valparaiso, Fla.—Invites bids on construction of 200x500 ft. wharf and warehouse on Sunset Bay.

Window Shades.—Board of Trustees, Consolidated High School, Batesburg, S. C.—Bids until June 10 for window shades.

Woodworking Machinery.—Burnsville Handle & Dimension Co., Burnsville, W. Va.—Mchy. for mfr. vehicle spokes, rims, handles and dimension lumber.

Financial News

New Financial Corporations.

Ala., Elberta.—John C. Lehr interested in establishing bank.

Ala., Huntsville.—Road.—Madison County will receive bids until June 14 on \$200,000 of 5 per cent semi-annual 20-yr. road bonds; Chas. H. Pulley, Prest. Board of Revenue. (Lately noted.)

Ala., Selma.—Sewer.—City will vote July 15 on \$75,000 sewer bonds; W. B. Hall, Mayor.

Ala., Tusculumbia.—Road.—Colbert County will vote June 14 on \$250,000 road bonds. Address County Comms. (Lately noted.)

Fla., Fort Pierce.—Public Utility.—City will receive bids until June 1 on \$80,000 of 5 per cent semi-annual 16 5-6 yr. bonds; W. R. Jackson, City Clk.

Fla., Miami.—Union National Bank, capital \$25,000 will organize with F. J. Brown, E. C. Hill, M. R. Long.

Fla., Miami Beach.—Miami Beach National Bank, capital \$120,000, organized by Carl G. Fisher, E. C. Romfh, Frank B. Shotts.

Fla., Millville.—Water and Electric.—City sold \$30,000 water and electric bonds. Address The Mayor.

Fla., Orlando.—School.—Voted \$300,000 school bonds. Address Board of Education.

Fla., Winter Haven.—Drainage.—Wahneeta Drainage Dist. sold \$60,000 bonds. Address Polk County Supvrs., Bartow, Fla.

Ga., Climax.—School.—Voted May 14 on \$20,000 school bonds; 6 per cent \$1,000 denomination 10-yr. school bonds; W. B. Johnson, Trustee and Treas. (Lately noted to vote.)

Ga., Macon.—Volney B. Leonard, El Paso, Tex., interested in establishing live stock loan bank with \$1,000,000 capital.

Ky., Bowling Green.—Security Finance Co., capital \$25,000; inceptd. by W. R. Taylor, E. L. Fox, A. L. Bates.

Ky., Cynthiana.—School.—Voted \$20,000 school bonds. Address Board of Education.

Ky., Ravenna.—Ravenna State Bank, capital \$15,000; inceptd. by Dillard M. Williams, Pryse, Ky.; M. B. Jones, Ravenna, Ky.; J. F. West, Irvine, Ky.

Md., Baltimore.—Stein Bros. & Boyce, 217 E. Baltimore St., organized by Julian S. Stein and C. Prevost Boyce.

Mo., Cape Girardeau.—Harrison Co., capital \$500,000; inceptd. by W. H. Harrison, Charles L. Harrison, Robert D. Harrison.

Miss., Pascagoula.—Jackson County will receive bids until June 6 on \$387,000 of 6 per cent semi-annual bonds; Fred Taylor, Clk. Supvrs.

N. C., Canton.—School.—City will receive bids until May 31 on \$65,000 school bonds; 6 per cent \$500 denomination 30-yr., dated June 1; G. L. Hampton, Mayor.

N. C., Charlotte.—Charlotte Bank & Trust Co., capital \$1,000,000; organized with Marvin A. Turner, Prest.; Sterling Graydon, V. P.; J. E. Leach, Cashr.

N. C., Kernersville.—School.—Forsyth County voted \$25,000 school bonds. Address County Comms., Winston-Salem, N. C. (Lately noted to vote.)

N. C., Winston-Salem.—Hinshaw-Mickle Co., capital \$5,000; inceptd. by G. Miller Hinshaw, J. N. Mickle, Allison A. James.

S. C., Greenville.—American Building & Loan Assn., capital \$250,000; inceptd. with B. F. Geer, Prest.; L. H. Stringer, V.-P.; Charles M. McGee, Secy.-Treas.

New Securities.

Ala., Ashland.—Road.—Clay County issued \$80,000 road warrants. Address County Court.

Ala., Birmingham.—Street.—City will issue \$225,000 street bonds; H. S. Ryall, City Clk.

Ala., Montgomery.—Street.—City sold \$32,000 street bonds to Hodgson & Jones and P. A. Goldsmith. Address The Mayor. (Lately noted.)

Ala., Montgomery.—School.—Montgomery County voted \$500,000 school bonds. Address Board of Education. (Lately noted to vote.)

Ala., Ozark.—Road.—Dale County voted \$100,000 road bonds; F. L. Mullins, County Engr.

Ala., Tuscaloosa.—Road and Bridge.—Tuscaloosa County will receive bids until May 30 on \$150,000 of 5 and 6 per cent bonds including \$75,000 road and \$75,000 bridge bonds; Wm. W. Brandon, County Judge. (Lately noted voting.)

Ark., Arkansas City.—Cypress Drainage Dist. sold \$500,000 of 6 per cent \$1,000 denomination bonds, dated April 1, 1921, to Wm. R. Compton Co., St. Louis, Mo.; Vernon McCammon, Prest. Drainage Comms. (Lately noted inviting bids.)

Ark., Little Rock.—Bankers' Trust Co. purchased \$350,000 Arkansas coupon notes at par value from State Dept. Board.

Fla., Eustis.—Bulkhead.—City sold bulkhead bonds; J. R. Ashmore, City Clk.

Fla., Fort Pierce.—Public Utility.—City will receive bids until June 1 on \$80,000 of 6 per cent semi-annual \$1,000 denomination; W. R. Jackson, City Clk.

Fla., Lakeland.—School.—Lakeland School Dist. will vote May 31 on \$200,000 school bonds. Address Board of Education.

Fla., Tavares.—Road.—Lake County voted \$600,000 road bonds of Dist. 3, 4 and 5. Address County Comms. (Lately noted to vote.)

Ga., Camilla.—Street.—City will vote July 26 on \$40,000 bonds. Address The Mayor.

Ga., Elberton.—Water, Street and Electric.—City voted \$65,000 water, street and electric bonds; 6 per cent \$1,000 denomination; J. T. Dennis, Jr., Mayor.

Ga., Helena.—Water.—City voted \$30,000 water bonds. Address The Mayor.

Ga., Manchester.—City will sell \$25,000 bonds for street improvements; Jas. H. Ables, Clk.

Ga., Tooea.—Street, Water and School.—City voted \$90,000 bonds. Address The Mayor.

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Ga., Vidalia.—Sewer.—City voted \$60,000 sewer bonds. Address The Mayor. (Lately noted to vote.)

Ga., Weston.—School.—Weston School Dist. voted \$20,000 school bonds. Address County Board of Education.

La., New Iberia.—School.—Iberia Parish sold \$193,000 bonds. Address School Board.

La., St. Martinville.—Street.—City will sell \$20,000 of 5 per cent street bonds; L. J. Du-champ, Mayor.

Md., Hagerstown.—Lake.—City will issue \$20,000 lake construction bonds. Address The Mayor.

Md., Snow Hill.—Road.—Worcester County sold \$40,000 of 6 per cent road bonds, dated June 1, 1921, to D. J. Wheaton, Salisbury, Md. Address County Commrs.

Md., Walkersville.—Street.—Town sold \$20,000 street bonds; 5½ per cent semi-annual, dated May 1, 1921; Armstrong G. McKinney, Clk. of Burgess and Commrs. (Lately noted inviting bids.)

Miss., Pascagoula.—Road.—Jackson County will receive bids until June 6 on \$180,000 of 6 per cent Supvrs. Dist. No. 4 bonds, dated July 1, 1921; \$112,000 Supvrs. Dist. No. 3 bonds, dated July 1, 1921 and \$95,000 Supvrs. Dist. No. 2 bonds, dated July 1, 1921; Fred Taylor, Clk. Supvrs.

Miss., Pascagoula.—Road.—Jackson County will receive bids until June 6 on \$95,000 of Supvrs. Dist. No. 2 bonds; 6 per cent semi-annual \$1,000 denomination, dated July 1, 1921; Fred Taylor, Clk. Supvrs.

Mo., Jasper.—Water.—City plans to vote on \$40,000 bonds; J. Hall, Mayor.

Mo., Kirksville.—Water.—City will vote June 21 on \$285,000 water bonds. Address The Mayor. (Previously noted.)

Mo., Maryville.—Drainage.—Nodaway County Supvrs. Barnard-Bolckow Drainage Dist. sold drainage bonds to National Bank of Commerce, St. Louis, Mo., for \$97,47½.

Mo., Pilot Grove.—School.—Board of Education will sell \$26,000 school bonds.

Mo., Warrensburg.—Hospital.—Johnson County will vote in August on \$150,000 bonds. Address County Commrs.

N. C., Brevard.—School.—Transylvania County sold \$15,000 of 6 per cent semi-annual Cathey's Creek Township School Dist. No. 3 bonds to Bruce Craven, Trinity, N. C.; Edwin Poor, Chrmn. County Board of Education. (Lately noted inviting bids.)

N. C., Bryson City.—Swain County Road Dist. will sell \$50,000 bridge bonds; D. E. Nichols, Clk. County Commrs.

N. C., Burlington.—Sewer and Water.—City sold \$50,000 of 6 per cent semi-annual \$1,000 denomination water and sewer bonds, dated April 1, 1921, to Alamance Bank and Trust Co., M. W. McPherson, City Clk. (Lately noted inviting bids.)

N. C., Goldsboro.—School.—Wayne County voted \$25,000 school bonds of Fork Township. Address Supt. Proctor.

N. C., Hendersonville.—School.—Henderson County will vote June 15 on \$20,000 school bonds; J. Foy Justice, County Supt.

N. C., Lexington.—School.—Davidson County voted \$225,000 school bonds. Address County Board of Education. (Lately noted to vote.)

N. C., Lumberton.—School.—Lumberton Graded School Dist. sold \$30,000 of 6 per cent 30-yr. school bonds to Mutual Loan & Trust Co. (Lately noted inviting bids.)

N. C., Marshall.—School.—Walnut School Dist. will sell \$25,000 school bonds voted May 7; Fred C. Sams, County Supt. Schools. (Lately noted to vote.)

N. C., Morganton.—Street.—Town will re-

ceive bids June 6 on \$25,000 of 6 per cent \$1,000 denomination street bonds, dated June 1, 1921; C. R. Claywell, Treas.

N. C., Mount Holly.—School.—Voted \$50,000 school bonds. Address School Board.

N. C., Ransaur.—School.—Voted \$75,000 school bonds. Address County Supt., Asheboro, N. C. (Previously noted.)

N. C., Scotland Neck.—Street.—City sold \$250,000 of 6 per cent street bonds to Scotland Neck bank for par and accrued interest; Henry T. Clark, City Clk. (Lately noted inviting bids.)

N. C., Shelby.—Water, Light and Refunding.—City will issue \$75,000 bonds including \$50,000 water and light and \$25,000 refunding; O. M. Suttle, Clk., Board of Alderman.

N. C., Smithfield.—School.—Johnston County sold \$15,000 of 6 per cent Smithfield Township school bonds to Hanchett Bond Co., Chicago, Ill.; J. W. Stephenson, Chrmn. (Lately noted inviting bids.)

N. C., West Asheville.—Street, Sewer, Water, Refunding, etc.—City will sell \$241,500 bonds including \$90,000 street; \$40,000 sewer; \$25,000 water; \$24,500 liquidating and \$12,000 refunding. Address Mayor Roberts.

N. C., Wentworth.—Road and Bridge.—Rockingham County sold \$300,000 of 6 per cent serial, \$1,000 denomination, dated Mar. 1, 1921, road and bridge bonds to Eyer & Co., New York. Address County Commrs.

N. C., Whiteville.—School.—Columbus voted \$75,000 school bonds. Address Board of Education. (Lately noted.)

Okla., Ada.—Sewer, Water and Land.—City voted \$335,000 bonds. Address The Mayor.

Okla., Cushing.—Hospital.—City will receive bids until May 27 on \$65,000 of 6 per cent semi-annual hospital bonds, dated Nov. 2, 1920; T. E. Hough, City Clk.

Okla., Duncan.—Water, Sewer and Electric.—City voted \$800,000 bonds including \$300,000 water, \$200,000 sewer and \$300,000 electric light and ice plant. Address The Mayor. (Lately noted to vote.)

Okla., Grandfield.—Water.—Attorney General approved \$30,000 water bonds. Address The Mayor.

Okla., McAlester.—Sewer.—City will vote May 31 on \$50,000 sewer bonds. Address The Mayor. (Lately noted.)

Okla., Muskogee.—School.—City plans to sell \$250,000 school bonds. Address The Mayor.

Okla., Pawhuska.—Water.—City plans voting on \$150,000 water bonds. Address The Mayor.

S. C., Anderson.—Refunding.—City sold \$200,000 of 6 per cent semi-annual \$500 or \$1,000 denomination refunding bonds, dated June 1, 1921, to J. H. Hillsman & Co., Atlanta, Ga., at 96 par; J. B. Farmer, City Clk. (Lately noted inviting bids.)

S. C., Columbia.—Road.—Richland County sold \$2,000,000 of 6 per cent road bonds to Bank of Columbia. Address Permanent Good Roads Comsn. (Lately noted inviting bids.)

S. C., Florence.—Street.—City may vote on \$350,000 street bonds. Address Mayor Bar-riager.

S. C., Landrum.—School.—Landrum School Dist. will receive bids until June 1 on \$20,000 of 6 per cent 20-yr. school bonds. Address Cornelius Otts, Spartanburg, S. C.

S. C., Moncks Corner.—School.—Trustees School Dist. No. 2, Jamestown, S. C., will receive bids until June 4 on \$8,000 bonds; Address Norval N. Newell, Attorney.

S. C., Spartanburg.—School.—Cornelius Otts, Attorney, 601 Allen & Law Bldg., will receive bids until June 1 on \$20,000 Landrum School Dist. No. 45 bonds; 6 per cent semi-annual

20-yr. dated June 1, 1921; B. F. Thompson, Clk.

Tenn., Covington.—Refunding.—City will receive bids until May 26 on \$50,000 6 per cent funding bonds; Paul Bringle, City Recorder and Treas.

Tenn., Dyersburg.—Road.—Dyer County sold \$670,000 road bonds jointly to I. B. Tigrett & Co., Caldwell & Co., and American Securities Co. Address Highway Comsn.

Tenn., Johnson City.—School and Street.—City sold \$350,000 bonds including \$150,000 school to Spitzer, Rorick & Co., Toledo, O., and Caldwell & Co., Nashville; and \$200,000 street bonds to Spitzer, Rorick & Co., Toledo, O.; T. H. McNeil, City Recorder. (Lately noted inviting bids.)

Tenn., Knoxville.—Park.—City sold \$50,000 park bonds to Ritter & Co., Wall St., New York, at premium of \$2,077.50 and accrued interest; John L. Greer, City Recorder.

Tenn., Lenoir City.—City sold \$75,000 assessment and \$37,500 street improvement bonds to First National Bank. Address The Mayor.

Tenn., Mt. Pleasant.—School.—City will vote June 7 on \$25,000 bonds. Address The Mayor. (Lately noted.)

Tenn., Nashville.—School.—State will receive bids until June 10 on \$600,000 school bonds; Alfred Taylor, Governor.

Tenn., Pulaski.—Water.—City will receive bids until June 6 on \$65,000 of 6 per cent semi-annual \$1,000 denomination water bonds; R. B. Dade, Mayor.

Tenn., Sevierville.—Road.—Sevier County will receive bids until June 16 on \$300,000 of 6 per cent \$1,000 denomination 30-yr. road bonds, dated July 1, 1921. Address County Commrs. (Lately noted.)

Tenn., Winchester.—School.—Franklin County voted \$20,000 school bonds. Address Board of Education.

Tex., Austin.—Road.—Attorney General approved \$35,000 Garfield Road Dist. bonds; Geo. S. Matthews, County Judge.

Tex., Clarksville.—Street.—Voted \$50,000 street bonds. Address The Mayor. (Lately noted to vote.)

Tex., Clarksville.—Levee.—City will sell \$80,000 of 6 per cent 30-yr. serial bonds, dated May 1, 1920. Address Prentice Wilson.

Tex., Crowell.—Road.—Foard County voted \$150,000 road bonds; G. L. Burk, County Judge. (Lately noted to vote.)

Tex., Dallas.—Road.—Dallas County will receive bids in June on \$2,700,000 bonds of Road Dist. No. 1; Chas. E. Gross, County Auditor. (Lately noted.)

Tex., Eastland.—School.—City voted \$50,000 school bonds. Address Board of Education. (Lately noted to vote.)

Tex., Fredericksburg.—School.—Fredericksburg Independent School Dist. will vote June 1 on \$75,000 bonds. Address Dist. Trustees.

Tex., Hallettsville.—Road.—Lavaca County Road Dist. No. 2 will receive bids until June 13 on \$60,000 road bonds; J. A. Sommerlatte, County Judge.

Tex., Houston.—Attorney General's Dept., Austin, Tex., approved \$225,000 bridge bonds; 5 per cent serial; Oscar Holcombe, Mayor.

Tex., Laredo.—Road.—Webb County sold \$200,000 of 5 per cent semi-annual road bonds to Wear, Thomas & Ratliff, Rogers, Tex. Address County Commrs.

Tex., Ladonia.—School.—City will vote June 20 on \$100,000 bonds including \$50,000 school, \$35,000 sewer and \$15,000 water. Address The Mayor. (Lately noted.)

Tex., Houston.—Attorney General, Austin, Tex., approved \$150,000 school bonds; O. F. Holcombe, Mayor.

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Tex., McKinney.—Road.—Collin County voted \$52,000 road bonds; O. T. Murray, County Judge.

Tex., Rockdale.—Street and Water.—City may vote on \$40,000 street and water bonds; H. C. Meyer, Mayor.

Tex., Orange.—Wharf and Dock.—City will vote June 14 on \$225,000 wharf and dock bonds. Address The Mayor.

Tex., Wichita Falls.—Road.—Wichita County sold \$1,500,000 of 5 per cent \$1,000 denomination 30-yr. road bonds, dated Oct. 1, 1919, to City National Bank; W. W. Murphy, County Auditor. (Lately noted inviting bids.)

Va., Hillsville.—Road.—Carroll County sold \$300,000 road bonds to Mountain Trust Co., Roanoke, Va., at par and accrued interest; 6 per cent 30-yr., dated May 1; Address County Comms. (Lately noted.)

W. Va., Anmore.—School.—Board of Education Dist. of Simpson will receive bids until June 3 on \$72,999 of 6 per cent semi-annual school bonds, dated May 1, 1921; C. M. Bailey, Secy.

W. Va., Bridgeport.—School.—Board of Education of Independent School Dist. will receive bids until June 3 on \$30,000 of 6 per cent semi-annual school bonds, dated May 1, 1921; A. B. Teter, Secy.

New Financial Corp.

Ky., Owensboro.—United States National Bank will merge with Central Trust Co. and increase capital stock.

Md., Baltimore.—Civic Building & Loan Assn., 3015 Greenmount Ave., capital \$1,300,000 inceptd. by Rodney J. Brooks, John J. Kernan, Edward B. Smith.

Mo., St. Louis.—Daly, Seddon & Co., organized by L. L. Daly and Bruce Seddon.

Okl., Jenks.—First State Bank, capital \$15,000 inceptd. by L. R. Steigler, R. L. A. Steigler; Beggs, Okla.; R. E. E. Steigler, Jenks, Okla.

Okl., Kiefer.—Security State Bank, capital \$25,000; inceptd. by A. E. Henry, M. E. Henry; both Kiefer; C. W. Benedict, Tulsa, Okla.

Financial Notes.

At the recent convention of the Louisiana Bankers' Association in New Orleans officers were elected for 1921-22 as follows: Prest., Eugene Cazedessus, of Baton Rouge; Vice-Prest., W. S. Craig, of Tallulah; Secy., J. C. Barry, of Lafayette; Treas., W. J. Mitchell, of New Orleans.

The Canal-Commercial Trust & Savings Bank of New Orleans has created the position of chairman of the board of directors to which W. R. Irby, hitherto president, has been elected, and on his recommendation J. P. Butler, Jr., has been elected to succeed him as president.

Mr. Butler was previously executive vice-president. In about a month the bank will occupy its new and commodious quarters. The capital and surplus total \$6,000,000.

Peoples Bank of Ashland, Ashland, Ky., increases capital from \$20,000 to \$25,000.

Third Ward Building & Loan Assn., Newport, Ky., increases capital from \$400,000 to \$500,000.

Wetumka Building & Loan Assn., Wetumka, Okla., increased capital from \$100,000 to \$250,000.

Wilmore Deposot Bank, Wilmore, Ky., increases capital from \$50,000 to \$75,000.

Guaranty Trust Co., Kansas City, Mo., increases capital from \$500,000 to \$750,000.

Officers have been elected by the two bankers' associations in Florida for 1921-22 as follows: Florida Bankers Association: Prest., Archie Livingston, Madison, Fla.; Vice-Prest., Chas. A. Faircloth, Tampa, Fla.; Secy.-Treas., W. O. Boozer, Jacksonville, Fla.; Florida State Bankers Association: Prest., Dr. L. A. Bize, Tampa, Fla.; First Vice-Prest., C. J. Joiner, Fort Lauderdale, Fla.; Second Vice-Prest., W. H. Nobles, Titusville, Fla.; Third Vice-Prest., S. E. Teague, Apalachicola, Fla.; Secy.-Treas., W. O. Boozer, Jacksonville, Fla.

Railroad Construction

Railways.

Tex., Cisco.—Cisco & Northeastern Railway Co., it is reported, is surveying for an extension from Breckenridge to Crystal Falls and thence to Seymour via other points in oil and coal regions. R. Q. Lee, Cisco, is Prest.

La., New Orleans.—Harry K. Johnson, of New Orleans, contemplates construction of an interurban railway to Shell Beach in the St. Bernard district.

Tex., Greenville.—Becknal Brothers, of Terrell, Tex., have, it is reported, been awarded contract by the Texas Midland Railroad to build its proposed extension from Greenville to Commerce, Tex., 14 mi. Estimated cost about \$500,000. E. H. R. Green, Terrell, Tex., is Prest.

Street Railways.

Ala., Birmingham.—Norwood Street Railway Co., a holding company organized by the Birmingham Realty Co., has filed a petition with the City Commission for permission to build a street car line on Norwood Boulevard for

the Birmingham Railway, Light & Power Co., at a cost of \$50,000. I. Croom Beatty is manager of the Birmingham Realty Co.

Fla., St. Petersburg.—A bond issue is reported voted for public improvements including street railway extension. Address The Mayor.

OBITUARY.

Thomas L. Smith.

Thomas L. Smith, founder, director and chief stockholder of the T. L. Smith Company, of Milwaukee, Wisconsin, died April 29 at his home in that city in the 66th year of his age. He was widely known as the inventor and manufacturer of the line of Smith tilting mixers for concrete work and his activities had been for years devoted to designing and producing not only mixers, but pavers, excavators, crushers, etc. He was a native of England and when 4 years old came to this country with his parents. He was a graduate of Iowa State College, Ames, Iowa, and of the Massachusetts Institute of Technology, Boston. He was at one time chief engineer of the D. J. Murray Manufacturing Co., Wausau, Wis., and invented a successful wood carving machine. In 1899 he invented the tilting mixer and the first machine was made in 1900. Then he began business on his own account with only \$500 assets but five years later he organized the T. L. Smith Co., which now has over \$1,200,000 assets. Mr. Smith also bought control of the Sterling Wheelbarrow Co., of West Allis, Wis., and made it the largest and most successful of all his holdings. The Smith Engineering Works, of Milwaukee, manufacturers of TelSmith rock and ore crushers, was organized and made a success by him.

Change of Location.

The Daynite Furniture Manufacturing Co. of Cape Girardeau, Mo., will conduct their business from St. Louis, Mo., in future. The company manufactures stepladders in 15 different styles for use in hardware and shoe stores, as well as libraries, warehouses, vaults, offices and similar places. A general line of store fixtures, including window racks, settees, show cases, foot stools, etc., are also manufactured, including an extensive line of house furniture and novelties.

The location of a branch office and distributing point in Pittsburg, Pa., and in some city in the West for the Pacific Coast trade is contemplated. The company is also reaching out for export business.

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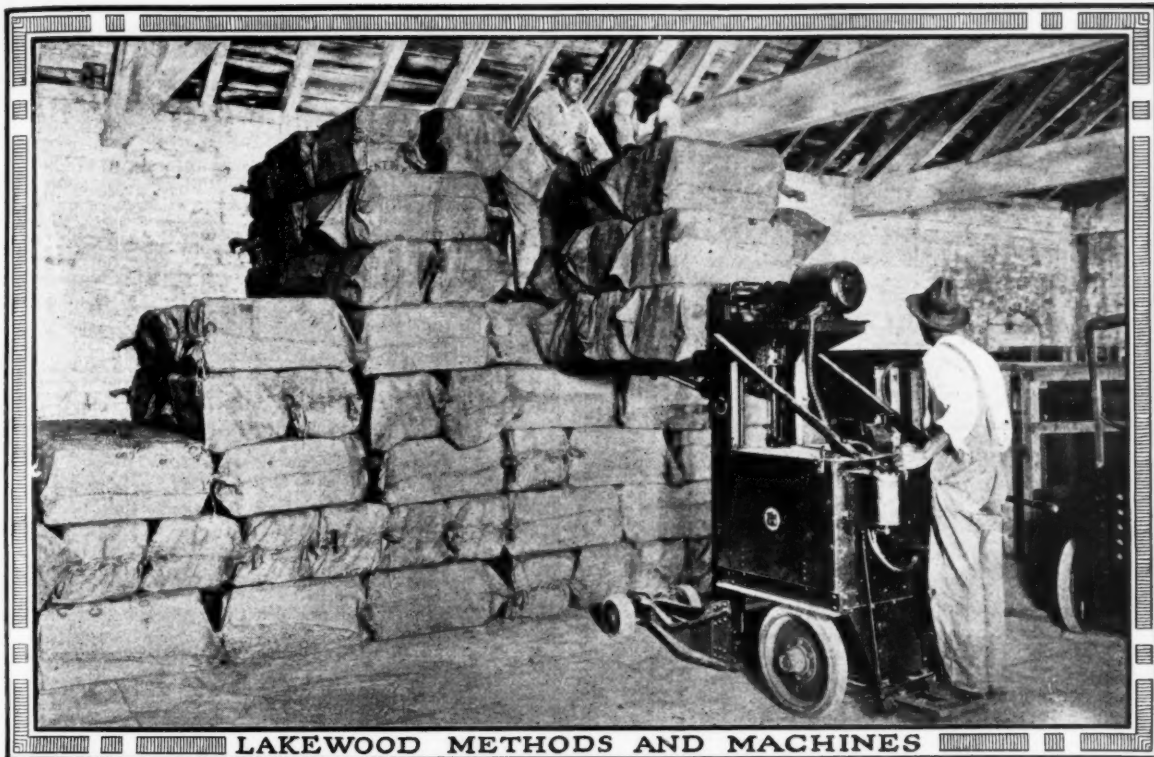
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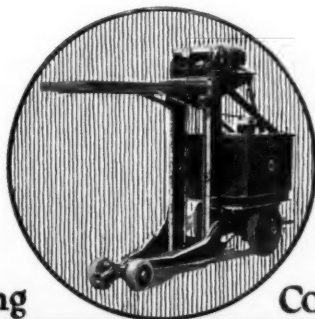


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LISTS OF COUNTY ROAD OFFICIALS

Since January 10, 1921, we have compiled, direct from the Counties, lists of the County Officials who have charge of road building, bridge construction, all other County public improvement work, and the purchase of County supplies, for the following States, the number of Counties and number of names in each State list being given:

State	Counties	Names	State	Counties	Names
Alabama.....	67	409	North Carolina..	100	591
Arkansas.....	75	279	Ohio.....	87	463
Florida.....	54	366	Oklahoma.....	77	357
Georgia.....	160	799	Pennsylvania.....	67	335
Indiana.....	92	527	South Carolina..	46	254
Kentucky.....	120	996	Tennessee.....	95	523
Louisiana.....	64	646	Texas.....	249	1540
Maryland.....	23	145	Virginia.....	100	624
Mississippi.....	82	566	West Virginia....	53	296
Missouri.....	114	548			
TOTALS.....			States, 19; Counties, 1,725; Names, 10,265		

The price of these lists is 1c per name, or \$100.00 for the nineteen lists. These lists are guaranteed 100% correct for ninety days from date of purchase. Orders (by wire collect, if you wish) will be filled by return mail. Further information upon request.

We are also compiling lists of City Officials of all incorporated Cities and Towns in some of the above States. If interested, please write for further information.

We can furnish other mailing lists of any classification, and make a specialty of compiling lists to meet unusual requirements.

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UNITED STATES SHIPPING BOARD WASHINGTON, D. C.

Offers for Sale

THREE STEEL CARGO STEAMERS

 SOUTH BEND, MARICA AND EDELLYN

Sealed bids will be received in the office of the Chairman, United States Shipping Board, Washington, D. C., on or before 10:30 A. M., May 31, 1921, and then opened in the office of the Board, on a lump sum basis "as is, where is."

NAME	SPECIFICATIONS	TONNAGE
SOUTH BEND	- DWT. 12,130 tons	
MARICA	- - DWT. 11,876 tons	
EDELLYN	- - DWT. 12,500 tons	

Length B. P., 449 ft. ½ in.

Breadth, 60 ft.

Depth, 40 ft.

Loaded draft, 31 ft. ¾ in.

Cubic capacity, bale, 592,636; grain, 626,454.

Bunker capacity, 2,300 tons oil.

Fuel consumption, 65 tons a day.

Speed, 13.5 knots.

Engines, 2 DeLaval Turbine, 2,500 S. H. P.

Boilers, 4 water tube.

Holds, 8.

Hatches, 8 (largest hatch 36 ft.x24 ft.)

These vessels were built by Sun Shipbuilding Corp., and are now tied up at Hog Island. Permission for the inspection can be arranged upon application to the District Director of the Board at Philadelphia. Address inquiries for further information to SHIP SALES DIVISION, UNITED STATES SHIPPING BOARD, WASHINGTON, D. C.

TERMS: A certified check for 2½% of the amount of the bid must accompany the offer. Prospective buyers will state in bids terms under which payments can be made; deferred payments, if any, to bear interest at rate of 5% per annum.

The Board Reserves the Right to Reject any or all Bids

Sealed bids should be addressed to the Secretary of the United States Shipping Board, Washington, D. C., and endorsed "Sealed Bids for Steel Steamers—Do Not Open Until May 31."

UNITED STATES SHIPPING BOARD WASHINGTON, D. C.

Offers For Sale

51 Steamship Hulls and 24 Converted Barge Hulls Located on the Pacific Coast

Sealed bids will be received in the office of the Chairman, United States Shipping Board, Washington, D. C., on or before 10:30 A. M., June 15, 1921, and then opened in the office of the Board on a lump sum basis "as is, where is."

These hulls are of wood construction of the Ferris 3500 DWT and Hough 4000 DWT types. This type of hull has been successfully converted into five-masted barkentines, schooners and tow barges and have given excellent service in the transportation of bulk cargoes such as lumber, petroleum, minerals and general cargo in coast-wise and trans-oceanic trade.

These hulls are built to the requirements of American Bureau of Shipping and the British Lloyd's Register.

All of these hulls are located on the Pacific Coast and Moored as follows:

ALAMEDA YARD	LAKE UNION
Alameda, Calif.	Seattle, Wash.
9 Steamship Hulls	32 Steamship Hulls
9 Converted Barge Hulls	11 Converted Barge Hulls
NORTH PORTLAND YARD	
Portland, Oregon.	
10 Steamship Hulls	
4 Converted Barge Hulls	

CONDITIONS OF SALE:

Bids will be received on any or all of these hulls on an "AS IS, WHERE IS" basis, and must be accompanied by a certified check for 2½% of the total amount of bid as an evidence of good faith.

TERMS: Twenty per cent cash, balance in four equal semi-annual payments covering period of two years. A liberal discount will be allowed for cash.

For additional information apply to any of the following Supply and Sales Offices:

Supply and Sales Division, Washington, D. C.; 45 Broadway, New York City; 140 N. Broad St., Philadelphia, Pa.; Hibernia Bank Bldg., New Orleans, La.; Northwestern Bank Bldg., Portland, Ore.; 369 Pine St., San Francisco, Calif.

The Board reserves the right to reject any and all bids.

Sealed bids should be addressed to the Secretary of the United States Shipping Board, Washington, D. C., and endorsed "Sealed Bids for Hulls. Do Not Open Until June 15."

Railway Employees Continue Under Open Shop Conditions.

Shreveport, La., May 18—[Special.]—The Shreveport Railways Company and their employees, forming the local union of the Amalgamated here, have shown the best way out of most of the present industrial troubles.

On May 1 the regular Amalgamated Closed Shop contract was presented to Captain Hearne, president of the Railways Company, and after some consideration, he refused to accept it with the closed shop provisions in it, because of the fact that the Railways Company, along with 90 per cent of the employers and business houses of Shreveport had recently signed an open shop covenant. There was no argument concerning wages or hours, except on two clauses: the first of which specified that any man employed by the Railways Company must join the local, and second, that any man expelled or suspended by the local should be discharged by the Railways Company.

After some discussion on both sides, the local, because of the confidence that they have in the management of the Railways Company, and because of their firm belief that Shreveport is now, and will continue to be an open shop city, voted by vote of 78 to 16 to accept the contract without the closed shop provisions and to remain at work with the Railways Company under open shop conditions.

These men have shown and are showing the purest principles of Americanism, and have declared that they will make their local attractive for the services it can render the men and the efficiency it can give the company, rather than through the closed shop, force the Railways Company to make membership in their organization a requisite to earning a living.

Captain Hearne, the Railways Company, the Local, the Shreveport Open Shop Association and the people of Shreveport generally are much gratified over this proof that the principles of the street car local here have the best interest of the city and of the nation at heart.

Improvements at Alexander City Cotton Mills.

Referring to the announcement recently published in these columns regarding the installation of 200 new looms, and the additional facilities provided at the plant of the Alexander City Cotton Mills at Alexander City, Ala., J. F. Comer of the company, advises the Manufacturers Record:

"In July, 1919, we purchased this 6500-spindle and 164-loom mill from the C. E. Riley Co. of Boston. We immediately started the extension of this mill to a 13,000-spindle mill, operating 304 looms, and this work was duly completed. In the summer of 1920 we purchased 200-60-inch Draper looms, but they will not be delivered to us until next month. However, our weave shed has been completed to accommodate these looms. When the looms are in and if market conditions warrant their operation, we will take care of them by the night operation of the 13,000 spindles and accompanying machinery.

"Since the purchase of the mill we have tripled our warehouse capacity and also erected a 60 by 100-foot cloth room.

"Our village work has been completed, which was the addition of 80 cottages to the 40 original houses and all are now lighted by electricity. Each house also has a sanitary sewer system and running water, connections having been made with the Alexander City sewer line."

The Alexander City Cotton Mills are controlled and operated by the Avondale Mills of Birmingham, Ala., and manufacture twills, sheetings, chambrays, denims, etc.

The Magnolia Textile Corporation, Harris Hyman, president, New Orleans, La., is having plans prepared for the enlargement of the cotton factory at Magnolia, Miss. The addition will be 70x75 feet, and will be equipped for a clothroom.

Reports on Alaska Oil Fields.

Indications of petroleum have been found in five districts in Alaska, four of which, the Katalla, or Controller Bay Field, the Yakataga district, the Iniskin Bay district and the Cold Bay district are on the Pacific seaboard, and the fifth, which includes areas near Smith Bay, is on the Arctic Coast, according to a preliminary report on Petroleum in Alaska, made by George C. Martin for the United States Geological Survey. The petroleum from the Pacific Coast is "high grade refining oil with a paraffine base. The petroleum found near Smith Bay appears to have an asphaltic base," says the report.

Despite the fact that petroleum was among the first of the useful minerals found in Alaska, as is pointed out by Alfred H. Brooks in his letter transmitting Mr. Martin's report, the industry has received comparatively little attention. Except in the Katalla Field all attempts at systematic development were confined to a brief oil boom that began in 1901, but soon collapsed, owing to the oil development in California. All Alaska oil lands were withdrawn in 1910, and patent has been granted to only one claim, which is in the Katalla field. Since then nothing has been done except some drilling in the Katalla field until the passage of the recent oil and gas leasing act of February 25, 1920.

Approval of this law was the signal of starting small stampedes to all accessible locations where oil seepages were known, and many claims were staked. Up to September, 1920, 178 applications for oil leasing permits had been received by the Juneau land office, covering a total of 388,673 acres of land, and this by no means includes all of the claims that have been staked.

Those inexperienced in oil ventures are warned to be cautious in investing in Alaska oil stock without first obtaining full knowledge as to character of the company, and as to whether its holdings are in the region where petroleum seepage has been found.

"Wildcatting for oil in some parts of Alaska is perfectly legitimate," the letter states, "but the wildcatter should fully realize that the enterprise is a risky speculation."

Sale of Road Confirmed.

A report from Pensacola, Florida, says that the sale of the Gulf, Florida & Alabama Railroad to Harold B. Thorne, representing the Guaranty Trust Company, of New York, for \$500,000, has been confirmed by the United States District Court. The line is 142½ miles long from Pensacola to Kimbrough, Ala., connecting with the Southern Railway. It reaches a rich farming region. John T. Steele is receiver. R. C. Greenaway has been appointed general manager to succeed J. H. Fraser, resigned.

The sale of the Valdosta, Moultrie & Western Railway to C. L. Jones, of Valdosta, Georgia, for \$87,500, has been approved by the United States Court, but control and operation of the line, which is 42 miles long from Valdosta to Moultrie, Ga., will rest for a while with the receiver, Robert P. Murray, who is authorized to arrange for freight service. He is directed to discontinue operation after July 15 when the dismantling of the line can begin at the pleasure of the purchaser, proceeds of the sale of track materials, equipment and other property to be applied to the purchase price, payable to the receiver and by him to the special master.

Announcement has been made that the Merrimack Manufacturing Co. of Huntsville, Ala., manufacturer of lawns and print cloths, will resume operations on a 95 per cent production basis. The plant has been operating on short time.

PROPOSALS

BOND ISSUES
BUILDINGS
PAVING
GOOD ROADS

Bids close June 15, 1921.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 18, 1921.—Sealed proposals will be opened in this office at 3 P. M., June 15, 1921, for the extension of the Mechanical Equipment at the National Home for Lepers, at Carville, La., in accordance with specification and drawings, copies of which may be had at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 15, 1921.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 18, 1921.—Sealed proposals will be received at this office until 3 P. M., June 15, 1921, and then opened, for extension of mailing vestibule, at the United States Post Office, Shamokin, Pa., in accordance with drawing No. M. C.-60, and specification, copies of which may be had at the office of the Custodian, or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 16, 1921.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 16, 1921.—Sealed proposals will be opened in this office at 3 P. M., June 16, 1921, for Repairs to Plumbing, in the United States Post Office and Custom House, Galveston, Tex., in accordance with specification and drawing, copies of which may be had at this office or at the office of the Custodian, Galveston, Tex., in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 16, 1921.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 16, 1921.—Sealed proposals will be opened in this office at 3 P. M., June 16, 1921, for furnishing and installing a new Brick-set, Fire-box, heating boiler in the United States Post Office at Newberry, S. C. Drawings and specifications may be obtained from the Custodian at Newberry, S. C., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 15, 1921.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 14, 1921.—Sealed Proposals will be opened in this office at 3 P. M., June 15, 1921, for a brick set, down-draft, fire-box heating boiler, breeching, stack and hood, etc., in the United States Post Office, Staunton, Va., in accordance with specifications and drawings, copies of which may be had at this office or at the office of the Custodian, Staunton, Va., in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 14, 1921.

U. S. ENGINEER OFFICE, Wheeling, W. Va.—CEMENT.—Sealed Proposals will be received here until 11:00 A. M. (Eastern time), June 14, 1921, and then opened, for furnishing and delivering 20,000 barrels of American Portland cement for Dam No. 27, Ohio River. Further information on application.

Bids close June 21, 1921.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 21, 1921.—Sealed proposals will be opened in this office at 3 P. M., June 21, 1921, for removing the present heating system, and installing a new low pressure steam heating system, in the United States Post Office and Court House, at Little Rock, Arkansas. Drawings and specifications may be obtained from the Custodian at Little Rock, Ark., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 10, 1921.

U. S. ENGINEER OFFICE, Jacksonville, Fla.—Sealed proposals will be received here until 12 M., June 10, 1921, and then opened, for dredging and rock removal in St. Johns River, Fla., to complete the work remaining in Arlington Cut, from an unfinished contract. Further information on application.

Bids close June 10, 1921.

U. S. ENGINEER OFFICE, Jacksonville, Fla.—Sealed proposals will be received here until 12 M., June 10, 1921, and then opened, for hire of dredging plant and crew for dredging and rock removal in St. Johns River, Fla. Further information on application.

Bids close June 6, 1921.

\$387,000 6% Road Bonds

JACKSON COUNTY, MISSISSIPPI.
Sealed bids will be received by the undersigned Clerk up to ten o'clock A. M., of the 6th Day of June, 1921.

For \$180,000 Supervisors District No. 4, Jackson County, Mississippi, public road bonds, dated July 1st, 1921 and due \$4,000 on July 1st of each years 1922 to 1926, inc., and \$8,000 in each years 1927 to 1946 inclusive.

For \$112,000 Supervisors District No. 2, Jackson County, Mississippi, public road bonds, dated July 1st, 1921 and due \$3,000 on July 1st of each years 1922 to 1926; \$5,000 on July 1st of each years 1927 to 1945 inc., \$2,000 on July 1st, 1946.

For \$95,000 Supervisors District No. 2, Jackson County, Mississippi, public road bonds, dated July 1st, 1921 and due \$3,000 on July 1st of each years 1922 to 1926, and \$4,000 on July 1st of each years 1927 to 1946 inclusive.

Interest on above bonds payable semi-annually July 1st and January 1st each year, principal and interest payable at Pascagoula National Bank, Pascagoula, Miss., or Chase National Bank, N. Y. at option of holder.

Bonds to be furnished by purchaser and at purchaser's expense, and delivered within 30 days after sale.

Legality of Bonds will be approved by John C. Thompson, Esq., New York City, and opinion furnished successful bidder.

Certified check in amount of 5% of bonds bid for shall accompany bid, same to be forfeited unless terms of bid are complied with.

No bid for less than par and accrued interest will be considered.

Bids will be considered by Board of Supervisors at June Meeting 1921, the right being reserved to reject any or all bids.

FRED. TAYLOR,
Clerk Board of Supervisors,
Pascagoula, Miss.

Bids close June 6, 1921.

\$150,000 6% Road Bonds

Dobson, N. C.
Sealed bids will be received by the Clerk of the Board of County Commissioners of Surry County, at Dobson, North Carolina, up until twelve o'clock on the 6th day of June, 1921, for the purchase of \$150,000.00 of Surry County Good Roads Bonds, bearing 6% interest, payable semi-annually, with coupons attached, to mature at the discretion of the Board of County Commissioners, not to exceed thirty years, in denominations of \$1000 each. Maturity of the bonds will be determined on the day of the sale. A check for \$2500.00 certified by a Surry County bank must accompany every bid. The right to reject any or all bids is reserved. The sale will be publicly made at the time and place above mentioned.

This 23rd day of April, 1921.
W. W. THOMAS,
Chairman of Board of County
Commissioners.

Bids close June 3, 1921.

\$275,000 6% Street Improvement Bonds

City of Burlington, North Carolina.
Sealed bids addressed to undersigned will be received until 2 P. M., June 3, 1921, for all or any part of \$275,000 City of Burlington, N. C., Street Improvement Bonds, dated June 1, 1921, denomination \$1,000, maturing annually June 1, \$24,000 1923 to 1932, \$8,000 1933 and \$9,000 1934 to 1936. Principal and semi-annual interest (6% J and D I), payable in New York in gold, registrable as to principal.

Legal opinion by Chester B. Masslich, Esq., New York. The United States Mortgage & Trust Company, New York City, will prepare bonds and certify as to genuineness of signatures and seal. These bonds are direct general obligations, payable from a general ad valorem tax without limit. Certified check for 2% of par value of bonds bid for is required, to be drawn upon an incorporated bank or trust company and made payable to order of the City or undersigned Treasurer. Full information and blanks for bidding obtainable from undersigned or above mentioned trust company. Delivery in New York on or about June 13, 1921. The right to reject any or all bids is reserved. No bid under par will be considered.

M. W. McPHERSON,
City Treasurer.

Bids close May 30, 1921.

\$150,000 Road and Bridge Bonds

Tuscaloosa County, Alabama, May 11, 1921.
Tuscaloosa County, Alabama will receive sealed bids at the County Courthouse on May 30th, 1921 at 10 A. M., Tuscaloosa, Ala. for \$75,000 Road Bonds and \$75,000 Bridge bonds, bids invited for the purchase of said bonds on two interest basis viz: 1st. Interest at rate of 5%. 2nd. At rate of 2%. County has no floating debt; bonds exempt from taxation, authorized by an election; legality of bonds guaranteed. Enclose check 2% good faith; twenty year bonds, no option; interest semi-annual, payable New York City.

WM. W. BRANDON,
Judge of Probate,
Tuscaloosa, Ala.

Bids close June 22, 1921.

\$45,000 5% Improvement Bonds \$65,000 6% Improvement Bonds

Perry, Fla.
Bids will be received at the office of the City Clerk until 10 A. M., June 22, 1921, for the following bonds of the City of Perry, Florida:

\$25,000 30 year 5 per cent. Street improvement bonds of 1917.

\$20,000 30 year 5 per cent. Water and Sewer bonds of 1917.

\$25,000 6 per cent. Serial Street improvement bonds of 1920.

\$25,000 6 per cent. Serial Water and Sewer bonds of 1920.

\$15,000 6 per cent. Serial Drainage bonds of 1920.

Separate bids must be made for each issue. All bids to be accompanied by a certified check for 5% of face of bonds, payable to the Town of Perry, Florida.

AULAY MCAULAY,
City Clerk.

Bids close June 7, 1921.

Paving

Palatka, Fla.
Sealed bids will be received, and opened, by the City Council of Palatka, Fla., at their regular meeting on June 7th at 8 P. M., for constructing and setting approximately 7,000 lineal feet of concrete curb, and laying approximately 10,000 square yards of brick paving.

Plans and specifications can be seen at the office of the City Clerk after May 15th, or will be mailed to any address on receipt of \$2.00 to cover postage and incidental expense.

All bids must be accompanied by a certificate check for \$1,000.00, the same to be forfeited to the City of Palatka in the event that the contractor, to whom the contract is awarded, fails to qualify within the stipulated time.

The contractor, to whom contract is awarded, will be required to give a surety bond in an amount equal to one-third of the contract price.

The right is reserved to reject any or all bids.

JOHN H. RANDOLPH,
City Engineer.

CHAS. S. BURT,
City Clerk, Palatka, Fla.

Bids close May 23, 1921.

Drainage Construction

Daytona, Fla.
Notice is hereby given that sealed bids will be received by the Board of Supervisors of the Halifax Drainage District in Volusia County, at Daytona, Florida, until May 23, 1921, at 2 o'clock P. M., for the construction of certain ditches or canals, clearing of right of way, construction of concrete and wooden bridges and such other work as may be called for in the plans and specifications. Bids will be accepted for the work as set out in the Second Amended Plan of Reclamation of the District. The right is reserved to reject any and all bids. Bids must be accompanied by a certified check, bidders bond or cash equivalent to 3 per cent. of the amount of the bid, made payable to the Halifax Drainage District. A charge of ten (\$10.00) dollars will be made for plans and specifications, which may be obtained from the Chief Engineer, which will not be refunded.

HALIFAX DRAINAGE DISTRICT,
R. E. STEVENS, President.

W. H. EDMONDSON, Secretary.

C. M. ROGERS,
Chief Engineer, Daytona, Fla.

GARDINER & BRASS,
District Attorneys, Daytona, Fla.